Service Manual

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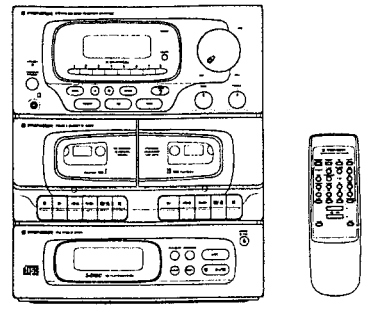

ORDER NO.
RRV1357

STEREO CD CASSETTE DECK RECEIVER

X-P50C
XR-P1500C

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	X-P50C	XR-P1500C		
KUXJ	○	○	AC120V	
KCXJ	○	○	AC120V	
SDXJ	○	○	AC110V/120-127V/220-230V/240V	With the voltage selector
SDXJ/NC	○	○	AC110V/120-127V/220-230V/240V	With the voltage selector
SLXJ/NC	○	○	AC110V/120-127V/220-230V/240V	With the voltage selector
YPWXJ	○	○	AC240V	

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1. SAFTY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

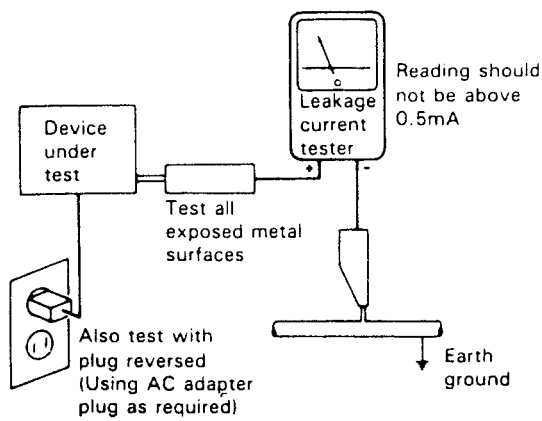
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. SPECIFICATIONS

STEREO CD CASSETTE DECK RECEIVER: XR-P1500C

Amplifier section

<U.S. and Canadian models>

Continuous Average Power Output is 10 Watts* per channel, min., at 8 ohms from 80 Hertz to 15,000 Hertz with no more than 1 % total harmonic distortion.**

Continuous Power Output (RMS)..... 15 W + 15 W
(1 kHz, T.H.D. 10%, 8 Ω)

<Australian model>

Continuous Power output (DIN)
.....11 W+ 11 W (1 kHz, T.H.D. 1%, 8 Ω)
Continuous Power output (RMS)
.....15 W+ 15 W (1 kHz, T.H.D. 10%, 8 Ω)

FM/AM tuner section

FM Tuner Section

Frequency Range
With 100 kHz step..... 87.9 MHz to 108.0 MHz
With 50 kHz step..... 87.5 MHz to 108.0 MHz

AM Tuner Section

Frequency Range
With 10 kHz step..... 530 kHz to 1,720 kHz
With 9 kHz step..... 522 kHz to 1,611 kHz

CD Section

Type ..... Compact disc digital audio system
Wow and Flutter ..... Limit of measurement
(±0.001% W.PEAK) or less (EIAJ)

Cassette deck section

Systems ..... 4 track, 2-channel stereo
Heads..... Recording/playback head × 1
Playback head × 1
Erasing head × 1
Motor ..... DC servo motor × 1
Tape type..... TYPE I (Normal) tape

Miscellaneous

Power Requirements
Australian model..... AC 240 V, 50/60 Hz
U.S. and Canadian models..... AC 120 V, 60 Hz
Power Consumption
Australian model..... 70 W
U.S. and Canadian models..... 60 W
Dimensions ..... 280 (W) × 335 (H) × 335 (D) mm
11 (W) × 13-3/16 (H) × 13-3/16 (D) in
Weight (without package)
Australian model..... 7.8 kg
U.S. and Canadian models..... 7.8 kg (17 lb 3oz)

Accessories

Operating Instructions 1
Remote Control Unit 1
Dry Cell Batteries (AA/R6P)..... 2
FM Antenna..... 1
AM Loop Antenna 1

SPEAKER SYSTEM: S-P1500

Enclosure..... Book-shelf style, bass reflex type
System..... 2-way 2-speaker system
Loudspeakers:
Woofer..... 13 cm cone type
Tweeter..... 6.6 cm cone type
Nominal Impedance ..... 8 Ω
Dimensions ..... 190 (W) × 335 (H) × 205 (D) mm
7-1/2 (W) × 13-3/16 (H) × 8-1/16 (D) in.
Weight..... 2.9 kg (6 lb 6 oz)

* Measured pursuant to the Federal Trade Commissions's Trade Regulation rule on Power Output Claims for Amplifier.
** Measured by audio spectrum analyzer.

NOTE:
Specifications and design subject to possible modifications without notice, due to improvements.

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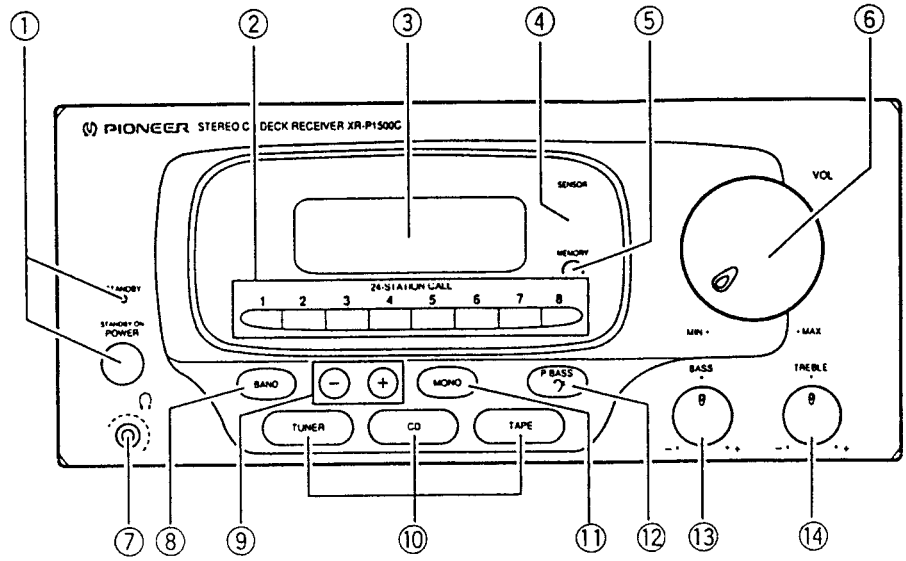
3. PANEL FACILITIES

RECEIVER SECTION



RECEIVER SECTION

① **POWER switch/STANDBY indicator**
This is the switch for electric power.
ON: When set to the ON position, power is supplied and the unit becomes operational.
STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.
The STANDBY indicator lights.

② **24-STATION CALL buttons (FM (16)/AM (8))**

③ **RECEIVER DISPLAY**

④ **Remote control SENSOR**

⑤ **MEMORY button**

⑥ **Volume control (VOL)**

⑦ **Headphone jack**

⑧ **BAND button**

⑨ **Tuning – (down) / + (up) buttons**

⑩ **Input selector buttons**
(TUNER, CD, TAPE)
Select the desired function before performing other operations.

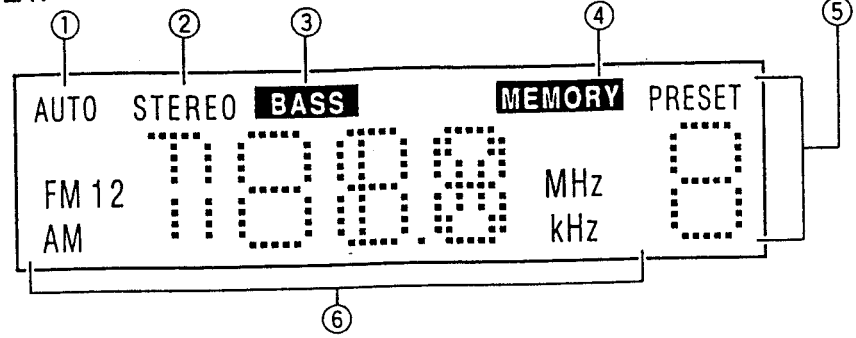
⑪ **MONO button**
During reception of FM stereo broadcasts, use to switch between stereo and monaural reception.

⑫ **P. BASS switch**
Set to ON to produce powerfully enhanced bass sound.

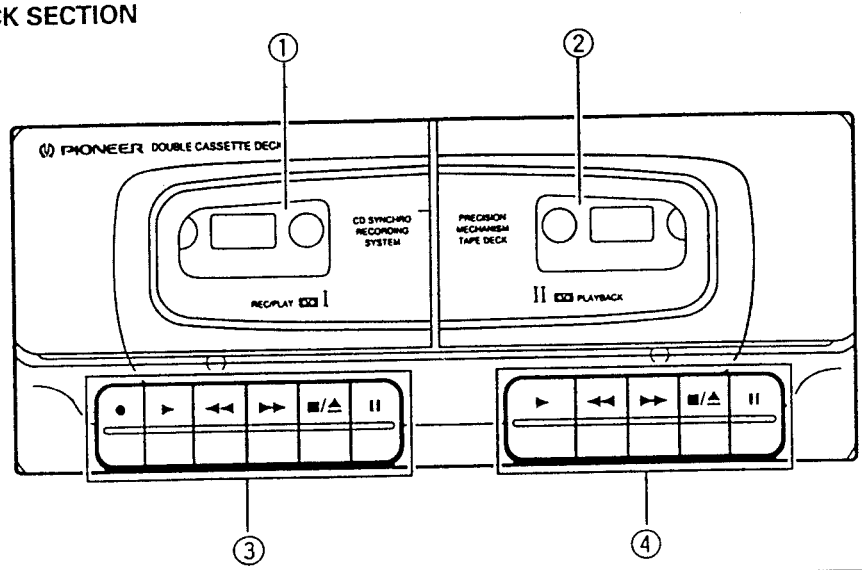
⑬ **BASS control**
Use to adjust bass (low-frequency) emphasis; turn toward the + side to boost bass sound, and toward the – side to decrease bass sound.

⑭ **TREBLE control**
Use to adjust treble (high-frequency) emphasis; turn toward the + side to boost treble sound, and toward the – side to decrease treble sound.

RECEIVER DISPLAY



TAPE DECK SECTION



RECEIVER DISPLAY

① **AUTO indicator**
The AUTO indicator turns off in the FM MONO mode.

② **STEREO indicator**
Lights during reception of stereo broadcast.

③ **BASS indicator**
Lights when the P. BASS function is ON.

④ **MEMORY indicator**
Lights when the memory button is pressed during the manual preset operation.

⑤ **Preset number display**
When manual preset operation is used, the preset station number is displayed here.

⑥ **Frequency display**
Tuned frequency is displayed.

TAPE DECK SECTION

① **DECK I cassette door**

② **DECK II cassette door**

③ **DECK I operation switches**
(Recording ●, Play ►, Fast ◄◄ ►►, Stop/Eject ■/≜, Pause II)

④ **DECK II operation switches**
(Play ►, Fast ◄◄ ►►, Stop/Eject ■/≜, Pause II)

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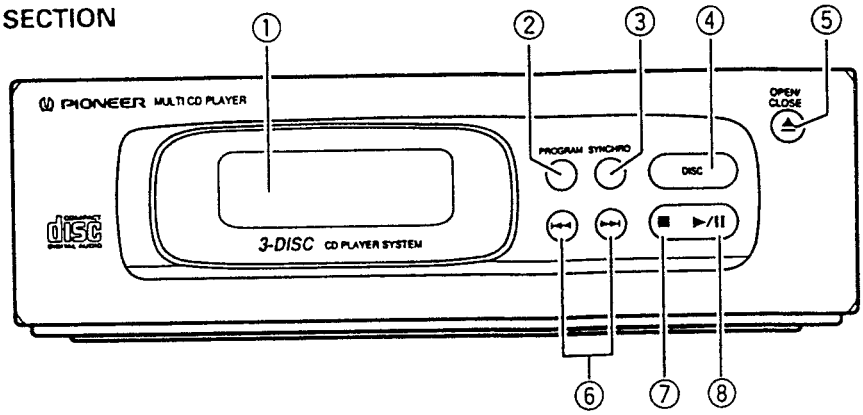
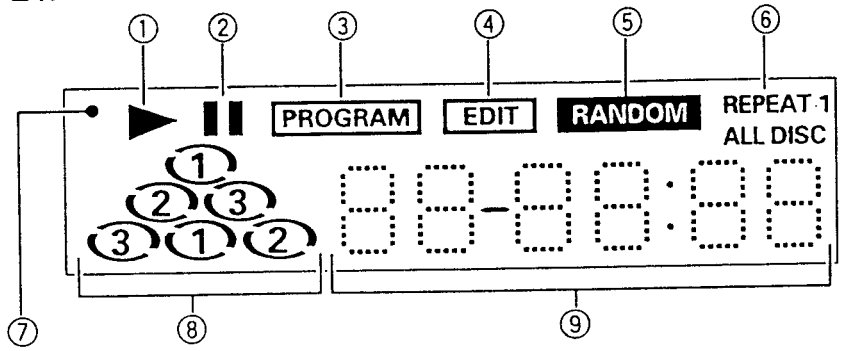
CD PLAYER SECTION



CD DISPLAY



CD PLAYER SECTION

① CD DISPLAY
② **PROGRAM button**
③ **SYNCHRO button**
④ **DISC button**
⑤ **OPEN/CLOSE button (⏏)**
⑥ **Track search buttons (⏮ ⏭)**
⑦ **Stop button (■)**
⑧ **Play/Pause button (▶/II)**

CD DISPLAY

① **Play indicator (▶)**
Lights when playing a CD.

② **Pause indicator (II)**
Lights during pause mode.

③ **PROGRAM indicator**
Lights during program mode.

④ **EDIT indicator**
Lights when EDIT recording is performed.

⑤ **RANDOM indicator**
Lights during random playback.

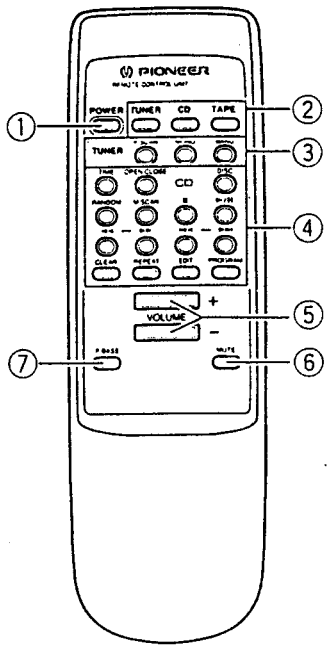
⑥ **REPEAT indicator**
Lights during repeat playback.

⑦ **CD operation signal reception indicator.**
Lights when a CD player operation signal is received from the remote control unit.

⑧ **Disc tray number indicator**
Lights when function is set to CD. The currently playing disc number flashes.

⑨ **Track number/time display**
Displays track number and playback time, etc.

REMOTE CONTROL UNIT



REMOTE CONTROL UNIT

① **POWER button**

② **Input selector buttons**
(TUNER, CD, TAPE)

③ **TUNER operation buttons**
P. (Preset) SCAN

MONO: During reception of FM stereo broadcasts, use to switch between stereo and monaural reception.

BAND: Use to switch between FM1, FM2 and AM bands.

④ **CD operation buttons**

TIME: Select time display mode.
OPEN/CLOSE: Use to open and close the disc tray.
DISC: Disc No. selection
RANDOM: Random playback
M. SCAN: Music (Intro) Scan
■: Stop
►/II: Play/Pause
◄◄, ►►: Manual search
I◄◄, ►►I: Track search
CLEAR: Use to erase the track program.
REPEAT: Repeat playback
EDIT: Use when performing edit-recording of CDs on cassette tape.
PROGRAM: Set to track programming mode.

⑤ **VOLUME –/+ button**

⑥ **MUTE button**
Press to temporarily minimize sound volume. Press again (or VOLUME button) to restore sound to its original volume.

⑦ **P. BASS button**

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4. DISASSEMBLY

■ How to Remove Changer Base

To remove the changer base, unscrew screw Ⓐ shown in the figure below and pull out changer base from the chassis.

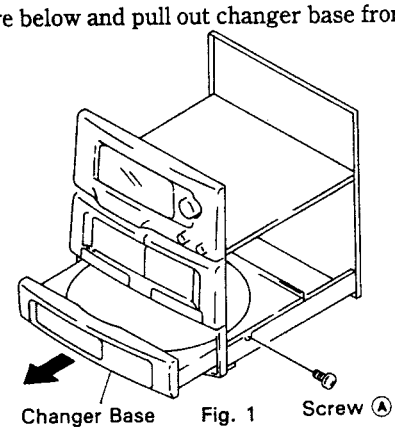


Fig. 1

■ How to Remove Turntable

1. Remove the turntable by sliding the guide plate outward.
2. Disassemble the base cover by removing the 2 screws Ⓑ.

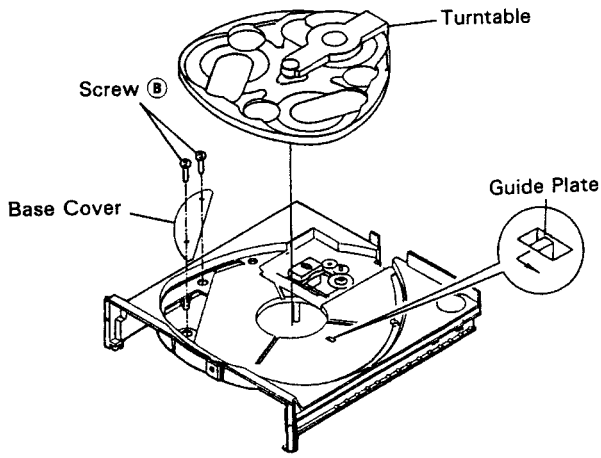


Fig. 2

After removing the turn table, remove magnetic holder from the arm assy, and use it to clamp a CD.

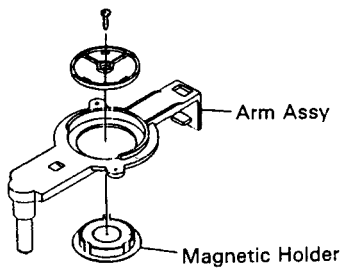
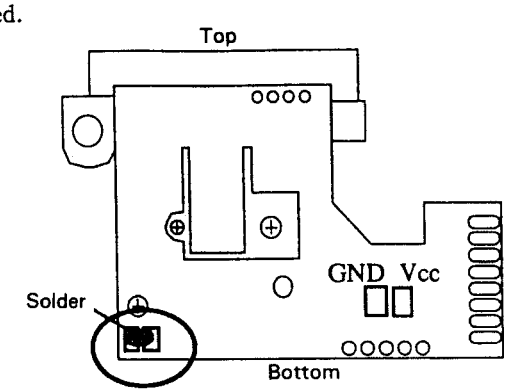


Fig. 3

■ Laser Diode Protection of the Pickup

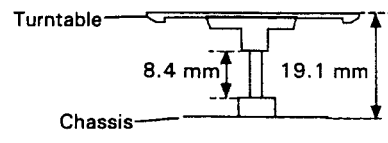
During transit, Laser diode of the pickup is protected from an electrostatic damage, by shorting Vcc and GND of the pickup assy with solder. Remove the solder after you have mounted the pickup assy to the unit.
Laser diode will not light unless this protection solder is removed.



Pickup Side View

■ Height of Spindle Motor Turntable

Spindle motor is available as CD mechanism assy, and so the height adjustment of spindle motor turntable is unnecessary. But in case of confirming the height level, refer to the following figure.



5. ADJUSTMENTS

5.1 TUNER SECTION

1. FM TUNER SECTION

FM Range Adjustment

1. FM RF signal generator input through JK101 FM antenna IN. (See Fig. 1)
2. Digital DC voltage meter connected to TP1 and TP2.
3. Tuning to 87.9MHz*1, adjust L103 for a counter reading of 1.20V±0.05V*2. (See Fig. 9)

   Note:

   (*1–*2 : SDXJ, SDXJ/NC and SLXJ/NC types only
   *1 : 87.5MHz, *2 : 1.2V ± 0.1V
4. Tuning to 108.0MHz, check the reading should be 8.5V±0.5V.
5. Repeat adjustments as necessary to minimize tracking error.

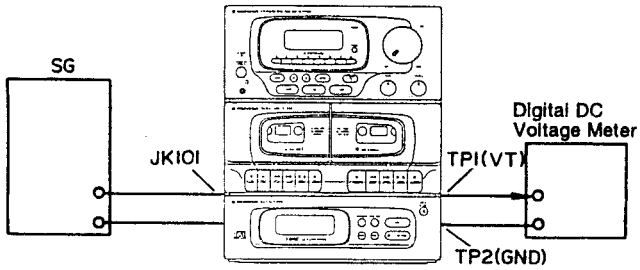


Fig. 1

FM IF Alignment Procedure

Adjust : T101, T104

1. Connect 0.022μF capacitor to IF sweep generator output and JK101 FM antenna IN. (See Fig. 2)
2. Output waveform from the oscilloscope connected to TP3 and TP4. (See Fig. 2)
3. Adjust T101 and T104 for maximum output. (See Fig. 3)

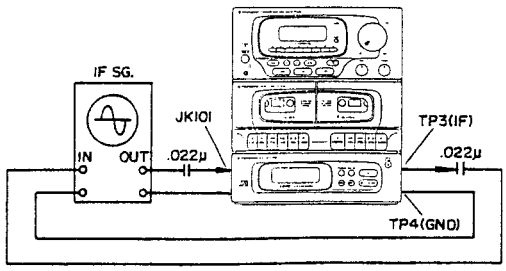


Fig. 2

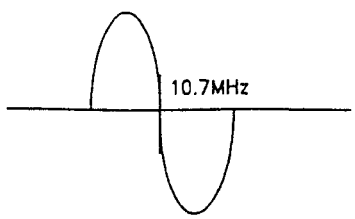


Fig. 3

FM Sensitivity Adjustment

1. FM RF signal generator input through JK101 FM antenna IN. (See Fig. 1)
2. Oscilloscope connected to speaker terminal (pins 3 and 4 of JK401).
3. Tuning to 90.1 MHz, turn VR101 clockwise to 2/3 of the maximum position and adjust L102 for maximum output.
4. Tuning to 106.1 MHz, turn VR101 clockwise to 2/3 of the maximum position and adjust TC101 for maximum output.
5. Repeat adjustments as necessary to minimize tracking error.

FM 76 kHz Alignment

1. Connect FM signal generator to FM EXT. antenna terminal.
2. Tuning to 98.1 MHz.
3. Connect a frequency counter as shown in Fig. 4.
4. Set FM mode key to FM auto, and FM MOD. to OFF.
5. Adjust VR101 for a frequency counter of reading of 76 kHz ±200Hz.

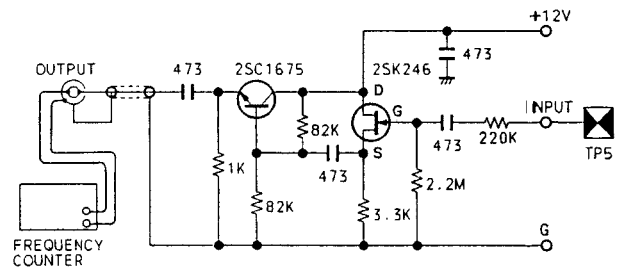


Fig. 4

2. AM TUNER SECTION

AM Tange Adjustment

- Position the channel step switch on the rear panel to 9kHz position. (SDXJ, SDXJ/NC and SLXJ/NC types only 10kHz position)

1. AM RF signal generator output from loop antenna, and input through JK101 AM antenna IN. (See Fig. 1)
2. Digital DC voltage meter connected to TP1 and TP2.
3. Tuning to 530kHz*3, adjust T102 for a counter reading of 1.0V ±0.05V*4.
4. Tuning to 1720kHz*5, adjust TC103 for a counter reading of 7.2V±0.05V*6.
5. Repeat adjustments as necessary to minimize tracking error.

Note:

(*3–*6: YPWXJ only
*3: 522kHz, *4: 0.8V±0.05V, *5: 1611kHz, *6: 6.25V±0.05V

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AM IF Alignment Procedure

Adjust : T103

1. Connect 0.022μF capacitor to IF sweep generator output and JK101 AM antenna IN. (See Fig. 2)
2. Output waveform from the oscilloscope connected to TP3 and TP4. (See Fig. 2)
3. Adjust T103 for maximum output. (See Fig. 5)

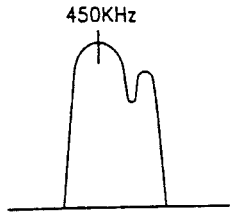


Fig. 5

AM Sensitivity Adjustment

- Position the channel step switch on the rear panel to 9 kHz position.

1. Tuning to 603 kHz, adjust L104 for maximum output.
2. Tuning to 1395 kHz, adjust TC102 for maximum output.
3. Repeat adjustments as necessary to minimize tracking error.

(2). CASSETTE DECK SECTION

Cassette Speed Adjustment

1. Insert test tape STD−301E into deck II (play deck), in normal dubbing mode.
2. Connect a frequency counter to speaker terminal (pins 3 and 4 of JK401).
3. Adjust VR609 for a frequency counter reading of 3150Hz ±2%.

Head Azimuth Adjustment

1. Insert test tape STD−331E into deck I, in play mode.
2. AC milli-volt meter connected to speaker terminal (pins 3 and 4 of JK401).
3. Adjust the left side screw for maximum output. (See Fig. 6)
4. Insert test tape STD−331E into deck II, in play mode.
5. Adjust the left side screw for maximum output. (See Fig. 7)

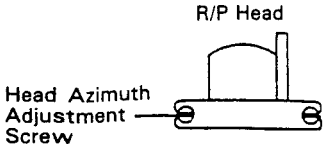


Fig. 6

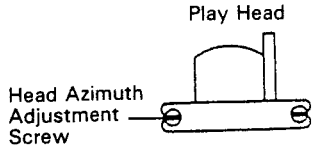


Fig. 7

Oscillator Frequency Check

1. Connect the frequency counter to an emitter of Q609 and GND. Check that frequency is 75 kHz ±5kHz (FIX frequency)

Adjusting the erasing head

1. Adjust the recording/playback head (R/P) of the deck I.
2. Load the mirror tape for service (GGK-078) into the deck I and playback the tape.
3. Adjust the height of the erasing head so that the tape does not curl at the tape guide of the erasing head.

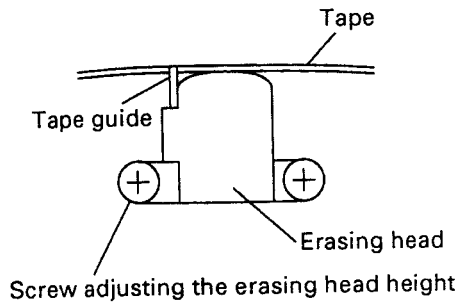
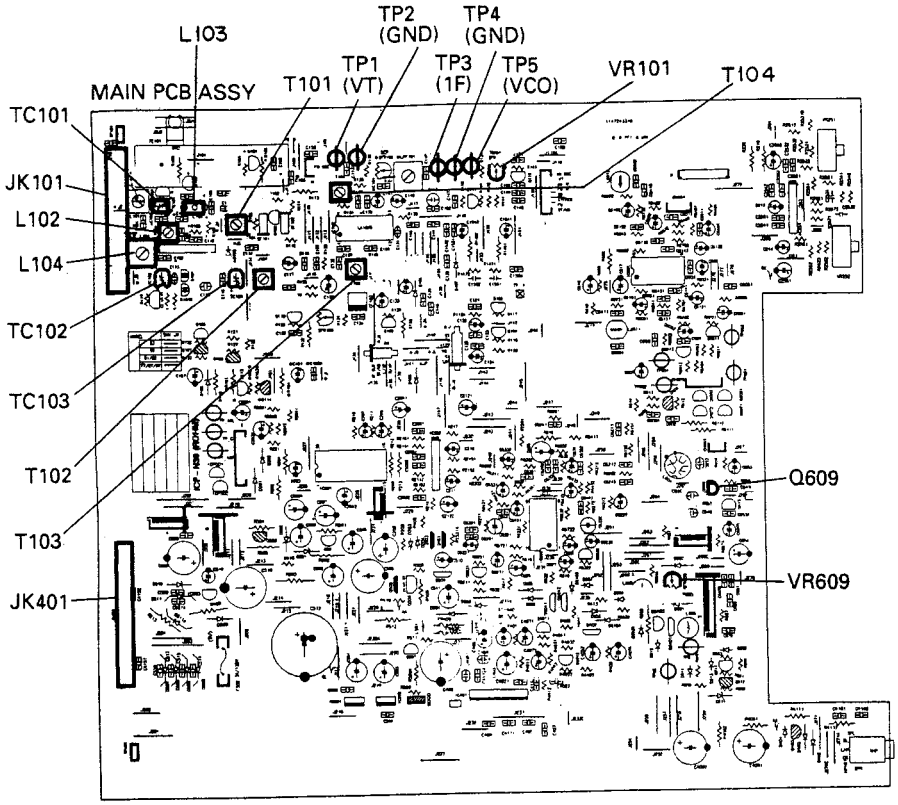


Fig. 8

3. CD SECTION

1. Stop the test disc (YEDS-7).
2. Adjust VR01 so that the output of Test point "CN15" becomes 0mV±20mV.



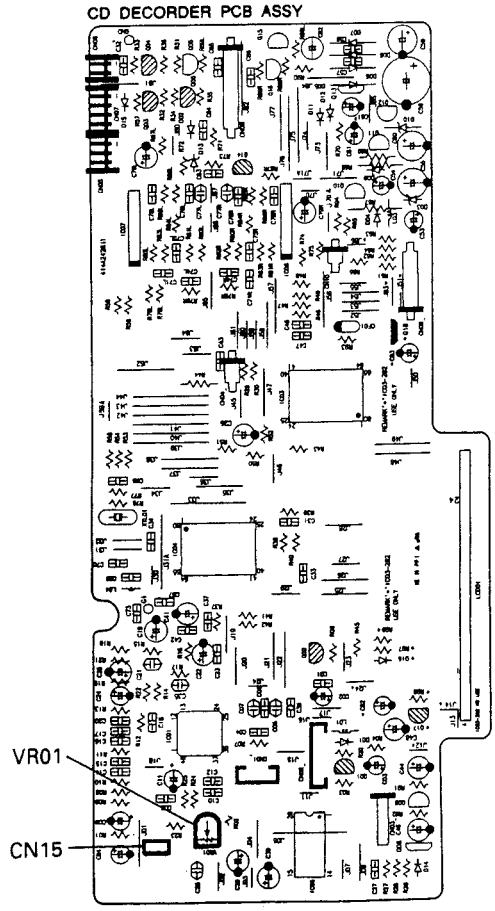


Fig. 9 Adjustment point

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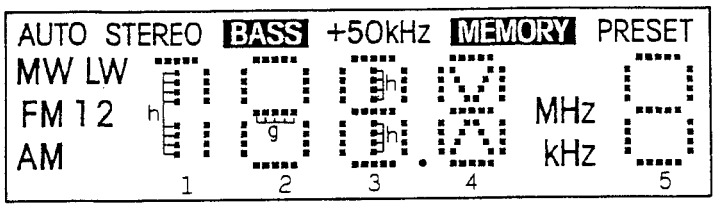
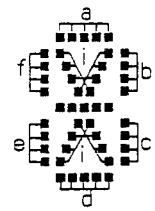
6. FL INFORMATION

■ AZA7090 (LCD001 : FRONT PCB ASSY)

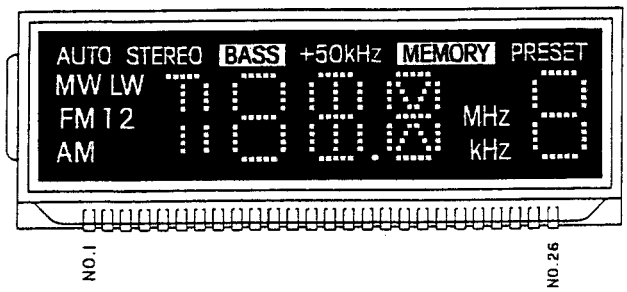
● **LCD Display**

● Grid Assignment





● Pin Assignment



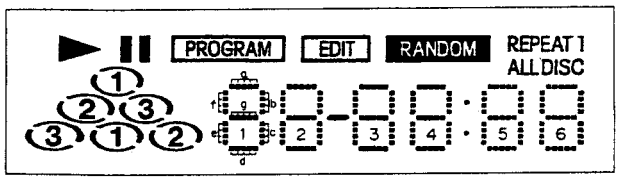
● Anode Connection

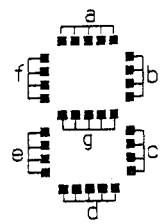
NO.	COM.1	COM.2
1	COM.1	
2		COM.2
3	MW	FM
4	AUTO	AM
5	1	LW
6	2	STEREO
7	BASS	1a
8	1h	1b.1c
9	2f	2b
10	2e	2g
11	2d	2c
12	2a	+50kHz
13	3f	3b
14	3e	3g
15	3d	3c
16	3a	3h
17	4f	4b
18	4e	4g
19	4d	4c
20	4a	4i
21	MHz	kHz
22	MEMORY	•
23	5f	5b
24	5e	5g
25	5d	5c
26	5a	PRESET

■ AZA7092 (LCD01 : CD DECODER PCB ASSY)

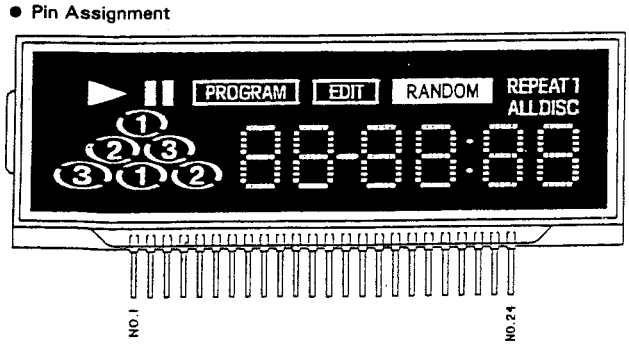
● **LCD Display**

● Grid Assignment





● Pin Assignment



● Anode Connection

NO.	COM.1	COM.2	COM.3
1			COM.3
2		COM.2	
3	COM.1		
4	under	center	•
5	under	center	top
6	▶	under	❚❚
7	1e	1f	
8	1d	1g	1a
9	1c	1b	PROGRAM
10	2e	2f	
11	2d	2g	2a
12	2c	2b	—
13	3e	3f	EDIT
14	3d	3g	3a
15	3c	3b	
16	4e	4f	RANDOM
17	4d	4g	4a
18	4c	4b	:
19	5e	5f	REPEAT
20	5d	5g	5a
21	5c	5b	ALL
22	6e	6f	DISC
23	6d	6g	6a
24	6c	6b	1

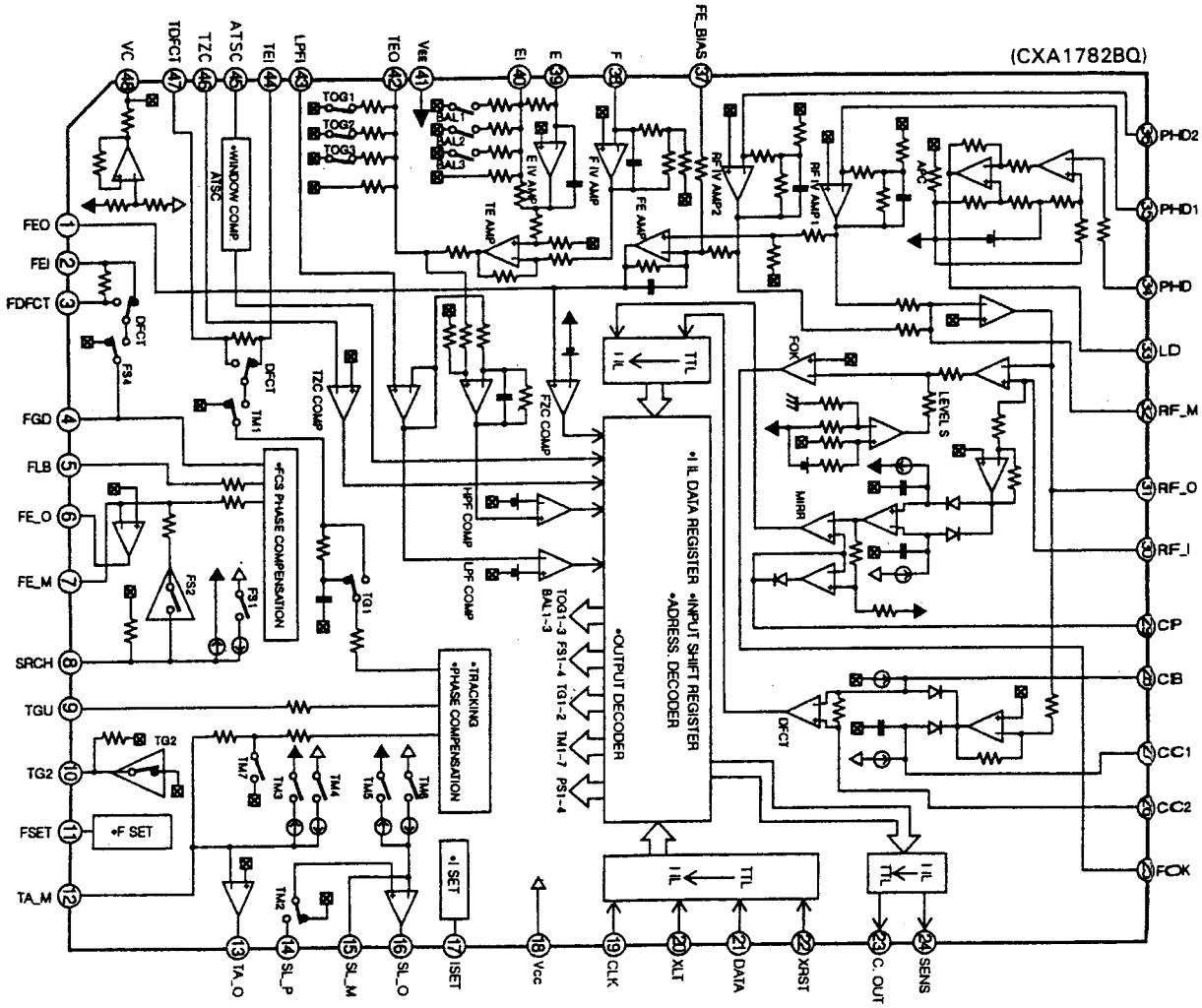
7. IC INFORMATION

- *The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.*

■ AZQ7016 (IC01 : CD DECODER PCB ASSY)

● RF/Servo Amplifier

● Block Diagram



● Pin Function

No.	Pin Name	I/O	Description
1	FEO	I	Focus errer amplifier output terminal, internally connected to the FZC comparator input.
2	FEI	I	Focus errer input terminal
3	FDFCT	I	Time constant capacitor connection terminal at the time of a defect.
4	FGD	I	Connect this terminal to earth via a capacitor to drop the high-range gain of the focus servo.

No.	Pin Name	I/O	Description
5	FLB	I	Time constant external connection terminal for raising of the focus servo low range.
6	FE O	O	Focus drive output
7	FE M	I	Focus amplifier reversion input terminal
8	SRCH	I	Time constant external connection terminal to produce the focus search waveform.

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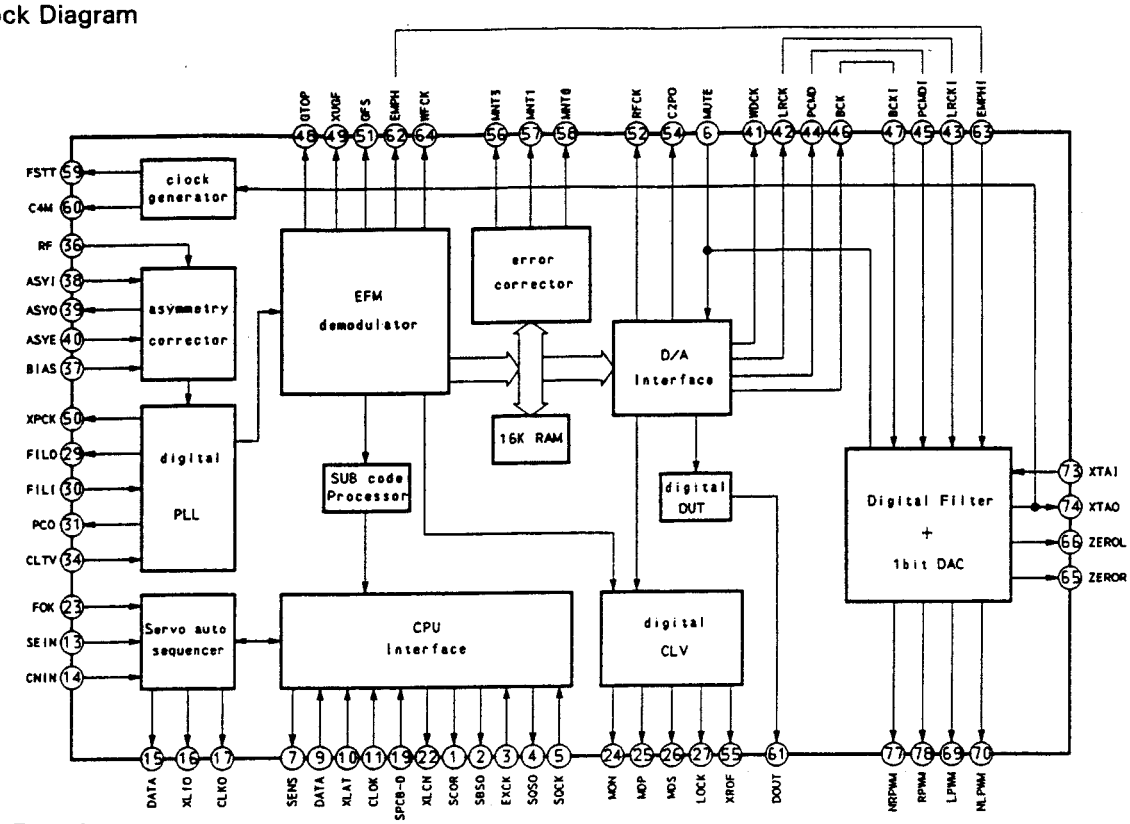
No.	Pin Name	I/O	Description
9	TGU	I	Time constant external connection terminal for tracking high-range gain switching.
10	TG2	I	
11	FSET	I	Terminal for peak setting for focus tracking phase compensation.
12	TA M	I	Tracking amplifier reversion input terminal
13	TA O	O	Tracking drive output
14	SL P	I	Sled amplifier non reversion input terminal
15	SL M	I	Sled amplifier reversion input terminal
16	SL O	O	Sled drive output
17	ISET	I	Current for decision of focus search, track jump, and sled kick height flows.
18	Vcc	–	
19	CLK	I	Serial data transmission clock input from the CPU (no pull-up resistor)
20	XLT	I	Latch input from the CPU (no pull-up resistor)
21	DATA	I	Serial data input from the CPU (no pull-up resistor)
22	XRST	I	Reset input terminal "L"=Reset (no pull-up resistor)
23	C.OUT	O	Signal output for track number count
24	SENS	O	Output of FZC, DFCT, TZC, Gain, BAL, etc. by command from the CPU.
25	FOK	O	Output terminal of the focus OK comparator
26	CC2	O	Input terminal for capacitative-coupled DEFECT bottom hold output
27	CC1	I	DEFECT bottom hold output terminal
28	CB	I	DEFECT bottom hold capacitor connection terminal
29	CP	I	MIRR hold capacitor connection terminal MIRR comparator non reversion input terminal
30	RF I	I	Input terminal for capacitative-coupled RF summing amplifier output
31	RF O	O	RF summing amplifier output terminal Eye pattern checkpoint

No.	Pin Name	I/O	Description
32	RF M	I	RF summing amplifier reversion input terminal The RF amplifier gain is decided by the resistor connected between this terminal and the RFO terminal.
33	LD	O	APC amplifier output terminal
34	PHD	I	APC amplifier input terminal
35	PHD1	I	RFI-V amplifier reversion input terminals Connected to the A+C, B+D terminals of the photodiode and receiving current input.
36	PHD2	I	
37	FE BIAS	I	Bias adjustment terminal of the focus errer amplifier.
38	F	I	F, E I-V amplifier reversion input terminals Connected to F and E of the photodiode and receiving current input.
39	E	I	
40	EI	–	Gain adjustment terminal of the I-V amplifier. (when automatic BAL adjustment is not used)
41	VEE	–	
42	TEO	O	Output terminal of the tracking error amplifier. E-F signal output
43	LPFI	I	Comparator input terminal for BAL adjustment. (input from TEO via LPF)
44	TEI	I	Tracking error input terminal
45	ATSC	I	ATSC detection window comparator input terminal
46	TZC	I	Tracking zero cross comparator input terminal.
47	TDFCT	I	Time constant capacitor connection terminal at the time of a defect.
48	VC	O	(VCC+VEE)/2 DC voltage output terminal

■ CXD2508AQ (IC04 : CD DECODER PCB ASSY)

● Digital Signal Processor

● Block Diagram



● Pin Function

No.	Pin Name	I/O	Description
1	SCOR	O	"H" when subcode sync S0 or S1 has been detected
2	SBSO	O	Serial output of SUBP to W
3	EXCK	I	Clock input for SBSO readout
4	SQSO	O	Serial output of SUBQ 80 BIT
5	SQCK	I	Clock input for SQSO readout
6	MUTE	I	Mute with "H", cancellation with "L"
7	SENS	O	SENS output, output to the CPU
8	XRST	I	System reset, reset with "L"
9	DATA	I	Serial data input from the CPU
10	XLAT	I	Latch input from the CPU, serial data latching with drop
11	CLOK	I	Serial data transmission clock input from the CPU
12	Vss	–	GND

No.	Pin Name	I/O	Description
13	SEIN	I	Sensing input from SSP
14	CNIN	I	Track jump number count signal input
15	DATO	O	Serial data output to SSP
16	XLTO	O	Serial data latching output to SSP, latching with drop
17	CLKO	O	Serial data transmission clock output to SSP
18	TEST2	I	Test pin, V_{DD} at the time of normal use
19	SPOB	I	Microcomputer expansion interface (input B)
20	SPOC	I	Microcomputer expansion interface (input C)
21	SPOD	I	Microcomputer expansion interface (input D)
22	XLON	O	Microcomputer expansion interface (output)
23	FOK	I	Focus OK input pin, used for SENS output and servo autosequencer

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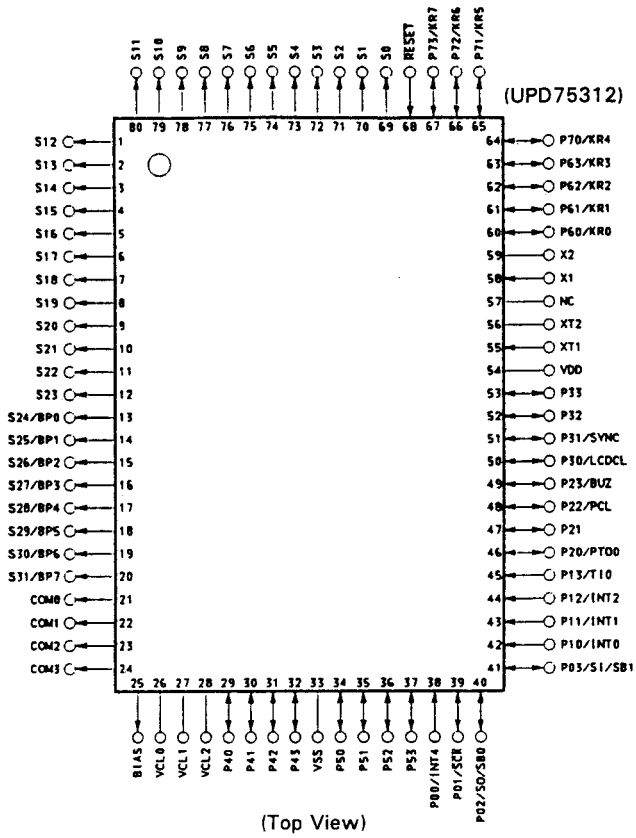
No.	Pin Name	I/O	Description
24	MON	O	Spindle motor ON/OFF control output
25	MDP	O	Spindle motor servo control
26	MDS	O	
27	LOCK	O	GFS sampling at 460 Hz, "H" output when GFS is "H", "L" output with 8 consecutive times "L"
28	TEST	I	TEST pin, GND at the time of normal use
29	FILO	O	Filter output for master PLL (slave = digital PLL)
30	FILI	I	Filter input for master PLL
31	PCO	O	Charge pump output for master PLL
32	V_{DD}	–	Digital power supply for DSP
33	AV_{SS1}	–	Analog GND for DSP
34	CLTV	I	VCO control voltage input for master PLL
35	AV_{DD1}	–	Analog power supply for DSP
36	RF	I	EFM signal input
37	BIAS	I	Asymmetry compensation circuit constant current input
38	ASYI	I	Asymmetry compensation circuit comparation voltage input
39	ASYO	O	EFM full swing output ("L" = V_{SS}, "H" = V_{DD})
40	ASYE	I	"L": Asymmetry compensation OFF, "H": Asymmetry compensation ON
41	WDCK	O	48 bit slot D/A interface, read clock (2FS)
42	LRCK	O	48 bit slot D/A interface, LR clock (FS)
43	LRCKI	I	LR clock input to DAC (48 bit slot)
44	PCMD	O	D/A interface, serial data (2'SCOMP, MSB first)
45	PCMDI	I	Audio data input to DAC (48 bit slot)
46	BCK	O	D/A interface, bit clock
47	BCKI	I	Bit clock input to DAC (48 bit slot)
48	GTOP	O	GTOP output
49	XUGF	O	XUGF output
50	XPCK	O	XPLCK output
51	GFS	O	GFS output
52	RFCK	O	RFCK output

No.	Pin Name	I/O	Description
53	V_{SS}	–	GND
54	C2PO	O	C2PO output
55	XROF	O	XRAOF output
56	MNT3	O	MNT3 output
57	MNT1	O	MNT1 output
58	MNT0	O	MNT0 output
59	FSTT	O	2/3 frequency division output of the pins 73 and 74
60	C4M	O	4.2336 MHz output
61	DOUT	O	Digital Out output terminal
62	EMPH	O	"H" with emphasis for the playback disc, "L" with no emphasis
63	EMPHI	I	DAC deemphasis ON/OFF, ON with "H", OFF with "L"
64	WFCK	O	WFCK (WRITE FRAME CLOCK) output
65	ZEROL	O	No sound data detection output, "H" with no sound data detection (Lch)
66	ZEROR	O	No sound data detection output, "H" with no sound data detection (Rch)
67	DTSI	I	DAC test terminal 1, normally "L"
68	V_{DD}	–	DAC digital power supply
69	LPWM	O	Lch PWM output (normal phase)
70	NLPWM	O	Lch PWM output (reverse phase)
71	AV_{DD2}	–	Power supply for Lch PWM driver
72	AV_{DD3}	–	Power supply for Xtal
73	XTAI	I	Xtal oscillation circuit input for 33.8688 MHz
74	XTAO	O	Xtal oscillation circuit output for 33.8688 MHz
75	AV_{SS3}	–	GND for Xtal
76	AV_{SS2}	–	GND for PWM driver
77	NRPWM	O	Rch PWM output (reverse phase)
78	RPWM	O	Rch PWM output (normal phase)
79	DTS2	I	Test terminal 2 for DAC, normally "L"
80	DTS3	I	Test terminal 3 for DAC, normally "L"

■ AZQ7033 (IC03 : CD DECODER PCB ASSY)

● Microcomputer

● Pin Assignment



(Top View)

● Pin Function

No.	Pin Name	Pin Function	I/O	Description
1 | 12	S12 | S23	S12 | S23	O	Segment output
13 | 16	BP0 | BP3	KS1 | KS4	O	Key scan output 1 | Key scan output4
17	BP4	EMPHAS	O	AUDIO circuit emphasis control
18	BP5	MUTG	O	DSP muting signal output
19	BP6	SYNC2	O	Output 1 for synchronized recording
20	BP7	SYNC2	O	Output 2 for synchronized recording
21 | 23	COM0 | COM3	COM0 | COM3	O	Common signal output terminal

No.	Pin Name	Pin Function	I/O	Description
24	COM3	COM3	O	Not used
25	BIAS	–	O	Output terminal for external splitting resistor cut
26	VCL0	–	I	Power supply terminal for LCD drive
27	VCL1	–	I	Not used
28	VCL2	–	I	
29	P40	CLOSE	I	Tray CLOSE SW
30	P41	OPEN	I	Tray OPEN SW
31	P42	SENSE1	I	Turntable position detection switch
32	P43	DISC	I	Disc detection photocoupler
33	VSS	–	–	GND
34	P50	LDG OP	O	Loading motor drive output (OPEN)
35	P51	LDG CL	O	Loading motor drive output (CLOSE)
36	P52	MOVE1	O	Turntable motor output 1
37	P53	MOVE2	O	Turntable motor output 2
38	INT4	GFS	I	Frame synchronous signal lock state
39	SCK	SQCK	O	CXD2518 SQCK
40	SO	SO	O	Not used
41	SI	SI	I	CXD2518 SUBQ
42	INTO	Q–IN	I	CXD2518 SCOR
43	INT1	REMOKN	I	Remote control sensor unit connection
44	INT2	SENSE	I	Servo status output signal
45	P13	FOK	I	Focus OK detection signal
46	P20	MUTE	O	AUDIO circuit muting control
47	P21	LDON	O	Laser output
48	P22	–	–	Not used
49	P23	–	–	

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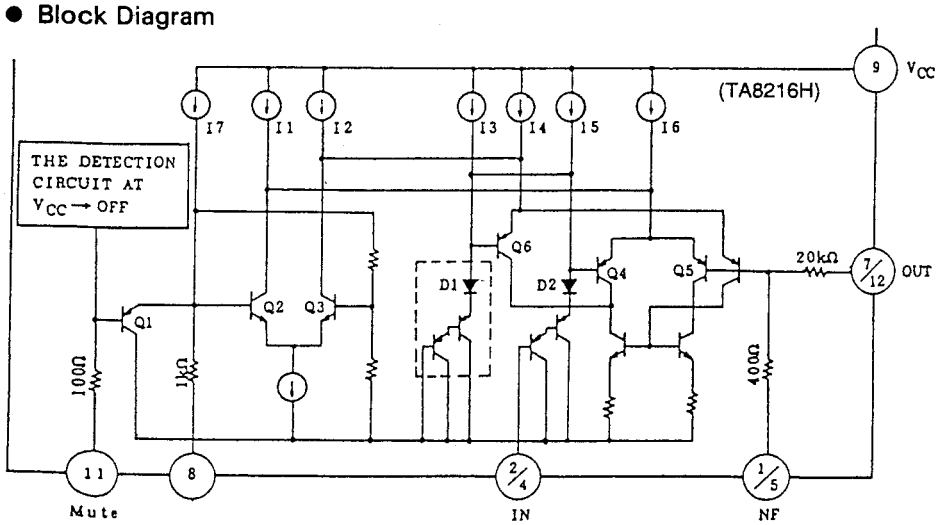
No.	Pin Name	Pin Function	I/O	Description
50	P30	RESUME	I	RESUME operation judgement terminal
51	P31	A. PLAY	I	Automatic play function after power ON YES/NO judgement terminal
52	P32	C. OUT	I	C. OUT
53	P33	A. A/M	I	Automatic adjustment YES/NO judgement terminal
54	VDD	–	–	——
55	XTI	A. MODE	I	Judgement terminal for automatic adjustment after power ON/for each disc change
56	XT2	–	–	——
57	NC	–	–	——
58	X1	–	–	Connection terminal of crystal oscillator for main system clock
59	X2	–	–	

No.	Pin Name	Pin Function	I/O	Description
60 | 64	P60 | P63	KR1 | KR4	I	Key scan input signal 1 | Key scan input signal 4
64	P70	DATA	O	CXD2518 DATA
65	P71	CLK	O	CXD2518 CLK
66	P72	XLT	O	CXD2518 XLT
67	P73	XRST	O	CXD2518 XRST
68	RESET	RESET	I	μ-com. reset signal input terminal
69 | 80	S0 | S11	S0 | S11	O	Segment output

■ AZQ7029 (IC401 : MAIN PCB ASSY)

● AF Power Amplifier

● Block Diagram

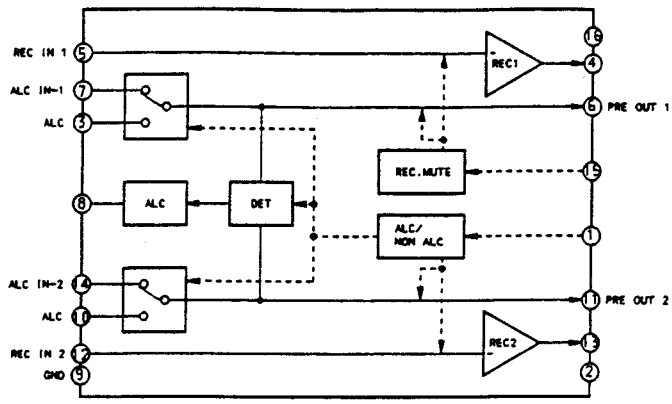


■ AZQ7010 (IC602 : MAIN PCB ASSY)

● Dual Recording Pre-amp. with ALC

● Block Diagram

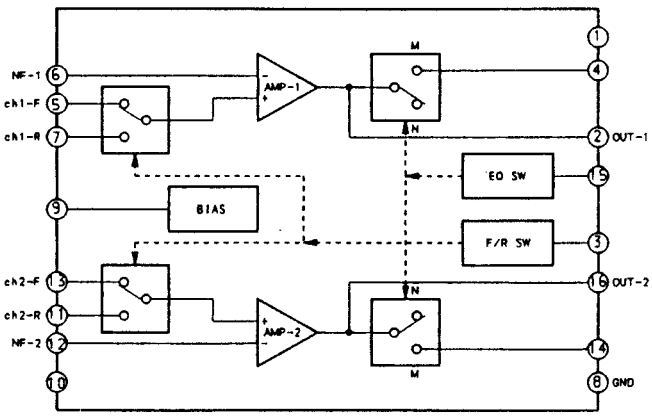
(TA8135P)



■ TA7784P (IC601 : MAIN PCB ASSY)

● Dual Pre-amp. for Autoreverse

● Block Diagram

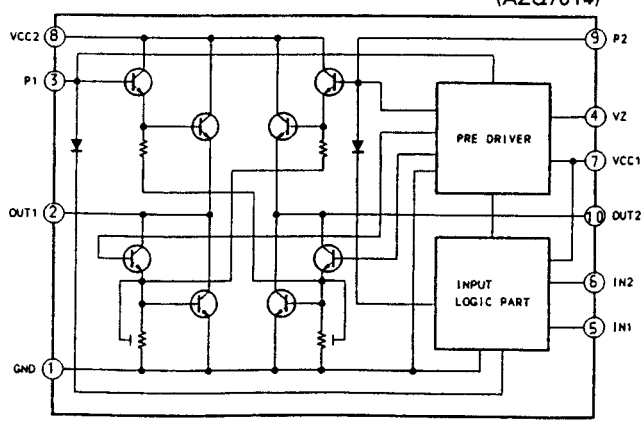


■ LB1641 (IC252 : VR PCB ASSY)

● Motor Driver

● Block Diagram

LB1641
(AZQ7014)



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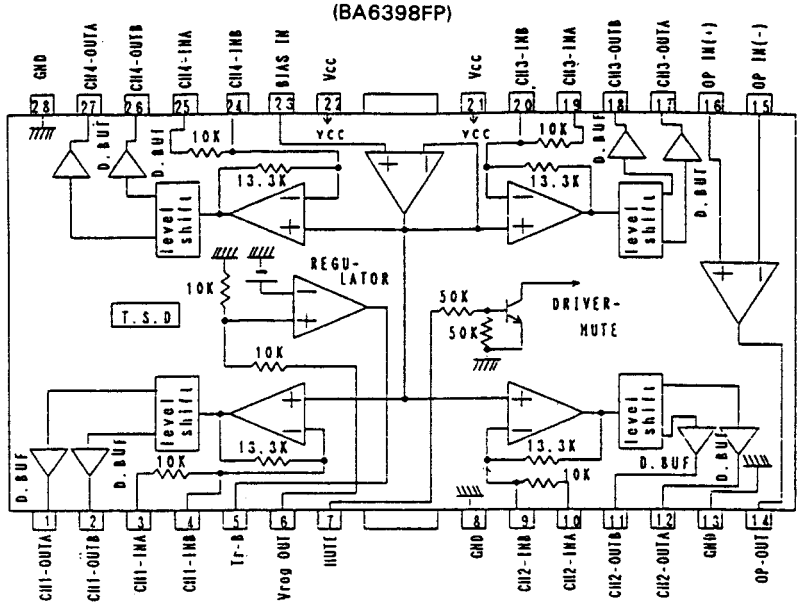
■ AZQ7019 (IC05 : CD DECODER PCB ASSY)

● 4ch BTL Driver

● Block Diagram

(BA6398FP)



● Pin Function

No.	Pin Name	Description
1	CH1−OUT A	Inverted output of CH1
2	CH1−OUT B	Non inverted output of CH1
3	CH1−IN A	Input for CH1
4	CH1−IN B	Gain adjustment of CH1
5	Tr−B	Connection with BASE of PNP Tr
6	Vreg OUT	Output for regulator (5V) (*1)
7	MUTE	Mute Control
8	GND	Ground
9	CH2−IN B	Gain adjustment of CH2
10	CH2−IN A	Input for CH2
11	CH2−OUT B	Non inverted output of CH2
12	CH2−OUT A	Inverted output of CH2
13	GND	Substrate Ground
14	OP OUT	Output for OP-amp

No.	Pin Name	Description
15	OP IN (−)	Inverting input for OP-amp
16	OP IN (+)	Non inverting input for OP-amp
17	CH3−OUT A	Non inverted output of CH3
18	CH3−OUT B	Inverted output of CH3
19	CH3−IN A	Input for CH3
20	CH3−IN B	Gain adjustment of CH3
21	Vcc	Vcc
22		
23	BIAS IN	Input for reference voltage
24	CH4−IN B	Gain adjustment of CH4
25	CH4−IN A	Input for CH4
26	CH4−OUT B	Non inverted output of CH4
27	CH4−OUT A	Inverted output of CH4
28	GND	Substrate Ground

**1. Connect collector of external PNP Tr.*

8. EXPLODED VIEWS AND PARTS LIST

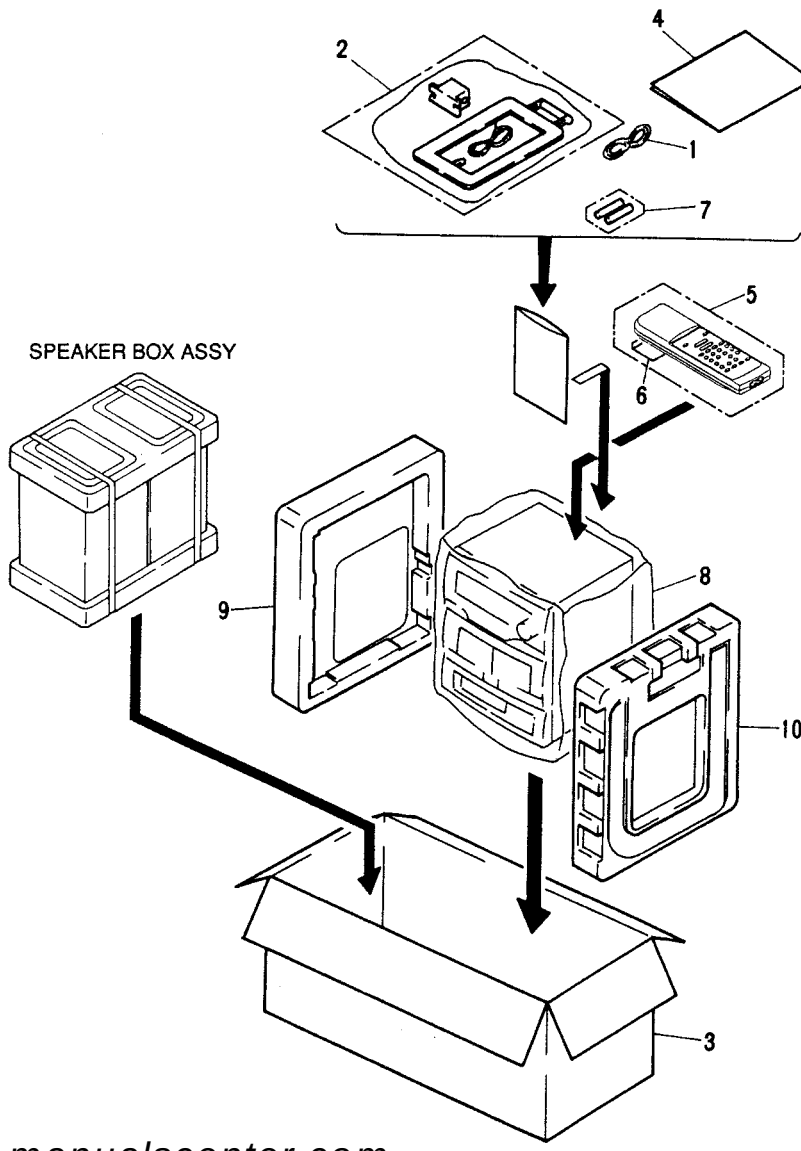
NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by " ⊙ " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

8.1 PACKING FOR X-P50C

Parts List

Mark	No.	Description	Parts No.
	1	FM LINE ANT	AZE1070
	2	AM LOOP ANT COIL	AZE7026
	3	MASTER CARTON	AZH7054
	4	OPERATING INSTRUCTIONS (English)	AZR7022
	5	REMOTE CONTROL UNIT	AZW7158
	6	BATTERY COVER	AZN7319
NSP	7	BATTERY (R6P, AA)	AEX-010
	8	SOFT SHEET 1300 x 750	AZH7027
	9	SNOW BOX (L)	AZH7053
	10	SNOW BOX (R)	AZH7052



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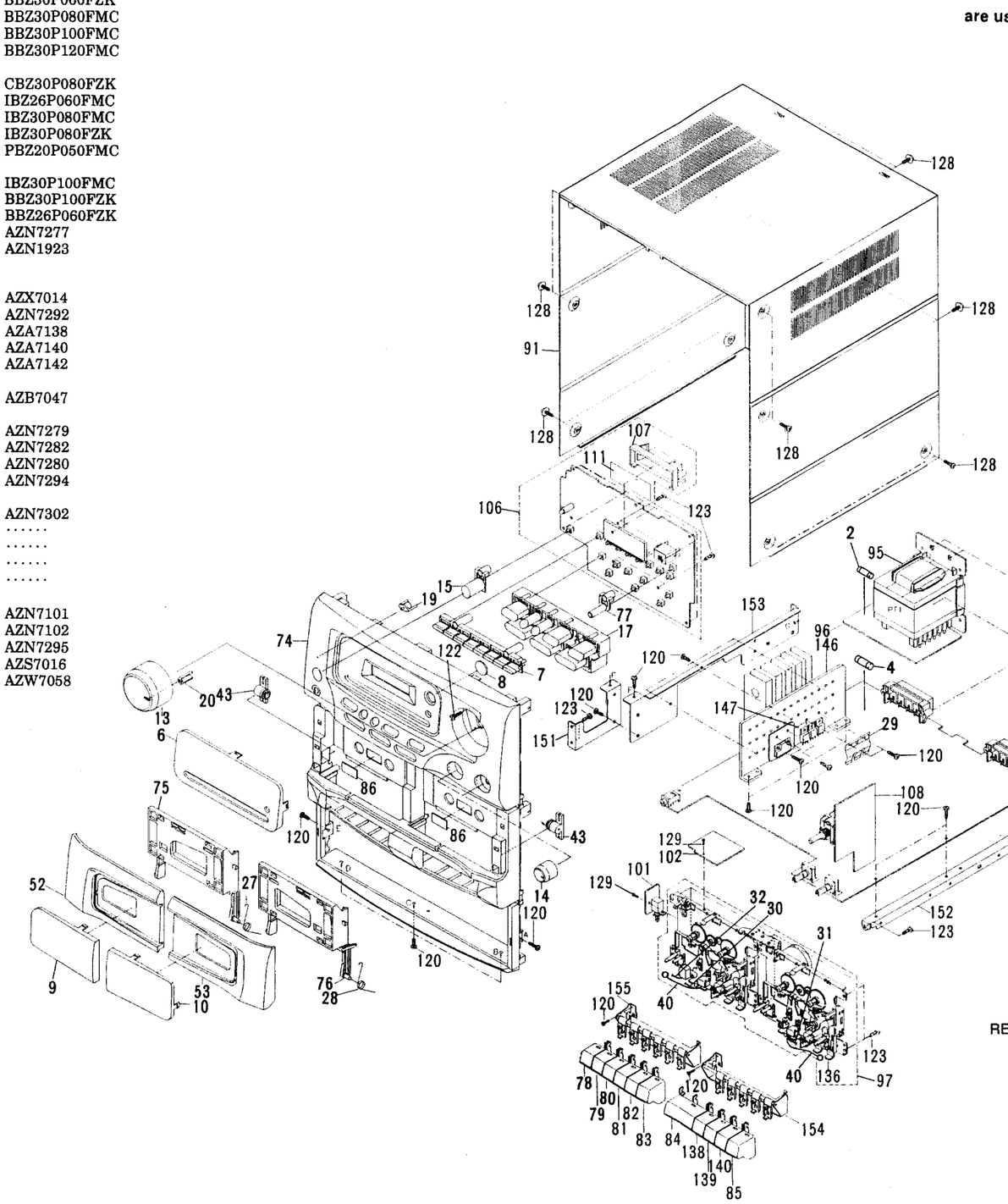
8.2 EXTERIOR

Parts List

Mark	No.	Description	Parts No.
	1	.....	
⚠	2	FUSE UL/CSA (FU501, T1.6A/125V)	AZE7093
⚠	3	.....	
⚠	4	FUSE UL/CSA (FU502, T3A/125V)	AZE7013
	5	CD WINDOW	AZA7129
	6	TUNING WINDOW	AZA7124
	7	STATION CALL BUTTON	AZA7130
	8	SENSOR WINDOW	AZN7264
	9	CASS. WINDOW L	AZA7126
	10	CASS. WINDOW R	AZA7125
	11	CD FUNC BUTTON	AZA7127
	12	OPEN/CLOSE BUTTON	AZA7128
	13	VOLUME KNOB	AZA7146
	14	TREBLE/BASS KNOB	AZA7147
	15	POWER BUTTON	AZA7131
	16	.....	
	17	FUNCTION BUTTON	AZA7133
	18	.....	
	19	POWER LENS	AZA7065
	20	VOLUME LENS	AZA7145
	21	.....	
	22	E RING 2.5Q	AZB7007
	23	WASHER	AZB7010
	24	E RING 8Q	AZB7011
	25	POLY WASHER	AZB7012
	26	CLUTCH SPRING	AZB7016
	27	DOOR SPRING-A	AZN7301
	28	DOOR SPRING	AZN7293
	29	IC. SPRING PLATE	AZB7048
	30	5P CON. ASSY BLK 400	AZD7002
	31	3P CON. ASSY BRN 300	AZD7003
	32	2P CON. ASSY GRY 400	AZD7004
	33	5P CON. ASSY 350M/M	AZD7006
	34	2P CON. ASSY 200M/M	AZD7007
	35	4P CON. ASSY 300/200	AZD7008
	36	3P CON. ASSY 200M/M 0	AZD7017
	37	8P CON. ASSY 400M/M	AZD7034
⚠	38	AC CORD UL 6.5F BLK	AZE7092
	39	CORD BUSHING 2104	AZE7002
	40	EARTH TER ASSY BLK-1	AZK7046
	41	SW PIN	AZN7276
	42	MAIN BASE COVER	AZN7009
	43	GEAR DAMPER	AZN7179
	44	PULLEY (SIDE)	AZN7030
	45	GUIDE PLATE	AZN7041
	46	CD MECHANISM CD94V5	AZN7281
	47	MOTOR PULLEY	AZN7053
	48	WHEEL	AZN7057
	49	BELT (60*1.6)	AZN7059
	50	MAG. COVER	AZN7063
	51	TRANSIT LOCK	AZN7103
	52	CASS. DOOR (L)	AZN7255
	53	CASS. DOOR (R)	AZN7256
	54	SIDE RAIL (R)	AZN7106
	55	SIDE RAIL (L)	AZN7107
	56	GUIDE PIN PLATE	AZN7108
	57	FOOT (GL-6S)	AZN7269
	58	.....	
	59	CD ESCUTCHEON	AZN7258
	60	CHANGER BASE	AZN7270
	61	TURN TABLE	AZN7271
	62	MAGNET	AZN7272
	63	MAG. HOLDER	AZN7273
	64	SHAFT (LEVER SW)	AZN7116
	65	LEVER PLATE	AZN7117
	66	.....	
	67	CAM GEAR	AZN7274
	68	CD PCB COVER	AZN7275
	69	SW BOX	AZN7121
	70	WIRE HOLDER	AZN7122
	71	GEAR WHEEL	AZN7123
	72	MOTOR BRK.	AZN7124
	73	CUSHION HOLDER	AZN7125
	74	FRONT ESCUTCHEION	AZN7259
	75	DOOR HOLDER (L)	AZN7261
	76	DOOR HOLDER (R)	AZN7260
	77	MEMORY BUTTON	AZA7132
	78	REC BUTTON	AZA7135
	79	PLAY BUTTON (A)	AZA7134
	80	REW BUTTON (A)	AZA7137
	81	F.F. BUTTON (A)	AZA7139
	82	STOP/EJ BUTTON (A)	AZA7141
	83	PAUSE BUTTON (A)	AZA7143
	84	PLAY BUTTON (B)	AZA7136
	85	PAUSE BUTTON (B)	AZA7144
	86	MIRROR	AZN7170
	87	.....	
	88	.....	
	89	.....	
	90	CD LOCK SHEET	AZH7038
	91	TOP COVER	AZN7257
	92	LEAF SW LSC-1223-31	AZS7001
	93	.....	
	94	LEAF SW MLS-1	AZS7003
⚠	95	POWER TRANS. EI-66	AZT7046
NSP	96	AC SUPPLY PCB ASSY	AZW7167
	97	CASS. DECK ASSY	AZW7181
	98	ARM ASSY	AZW7131
	99	MOUNTING PLATE ASSY	AZW7132
	100	LCD DISPLAY HOLDER	AZA7093
NSP	101	R/P SW PCB ASSY	AZW7171
NSP	102	CONNECTOR PCB ASSY	AZW7170
NSP	103	CD SENSOR PCB ASSY	AZW7177
NSP	104	CD LAMP PCB ASSY	AZW7176
	105	MAIN PCB ASSY	AZW7163
	106	FRONT PCB ASSY	AZW7184
	107	DISPLAY CHASSIS	AZN7166
NSP	108	VR PCB ASSY	AZW7172
	109	CD DECODER PCB ASSY	AZW7174
NSP	110	CD CONTROL PCB ASSY	AZW7175
	111	DISPLAY PLATE	AZA7095
	112	FILTER PLATE	AZK7156
	113	DRAWER MOTOR MEN-7E9	AZX7002
	114	T.T-MOTOR MMN-6E9D1	AZX7003
	115	SCREW	IBZ20P050FMC
	116	SCREW	BBZ26P030FMC
	117	SCREW	BBZ26P040FMC
	118	SCREW	IBZ40P080FCC
	119	SCREW	BBZ26P080FZK
	120	SCREW	BBZ30P060FMC

Mark	No.	Description	Parts No.
	121	SCREW	BBZ30P060FZK
	122	SCREW	BBZ30P080FMC
	123	SCREW	BBZ30P100FMC
	124	SCREW	BBZ30P120FMC
	125	SCREW	CBZ30P080FZK
	126	SCREW	IBZ26P060FMC
	127	SCREW	IBZ30P080FMC
	128	SCREW	IBZ30P080FZK
	129	SCREW	PBZ20P050FMC
	130	SCREW	IBZ30P100FMC
	131	SCREW	BBZ30P100FZK
	132	SCREW	BBZ26P060FZK
	133	SPACER (4 x 13 x 2)	AZN7277
NSP	134	BIND TYPE "A"	AZN1923
	135	.....	
	136	CASS. DECK TN-21ZSW-	AZX7014
	137	REAR PANEL	AZN7292
	138	REW BUTTON (B)	AZA7138
	139	F.F BUTTON (B)	AZA7140
	140	STOP/EJ BUTTON (B)	AZA7142
	141	POLY WASHER (Q20 x Q13)	AZB7047
	142	SPONGE (5.5 x 7)	AZN7279
	144	SPRING HOLDER	AZN7282
NSP	145	CD FIX PCB 30 x 15 x 1.6	AZN7280
	146	HEAT SINK ASSY	AZN7294
	147	INSULATOR W/O HOLE	AZN7302
NSP	150	BOTTOM CHASSIS	.....
NSP	151	HEAT SINK BRACKET (B)	.....
NSP	152	MAIN PCB BRACKET	.....
NSP	153	HEAT SINK BRACKET	.....
	154	BUTTON FRAME ASSY	AZN7101
	155	BUTTON FRAME ASSY	AZN7102
	156	PICKUP ASSY	AZN7295
	157	LIMIT SW	AZS7016
	158	CHASSIS ASSY	AZW7058

NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.



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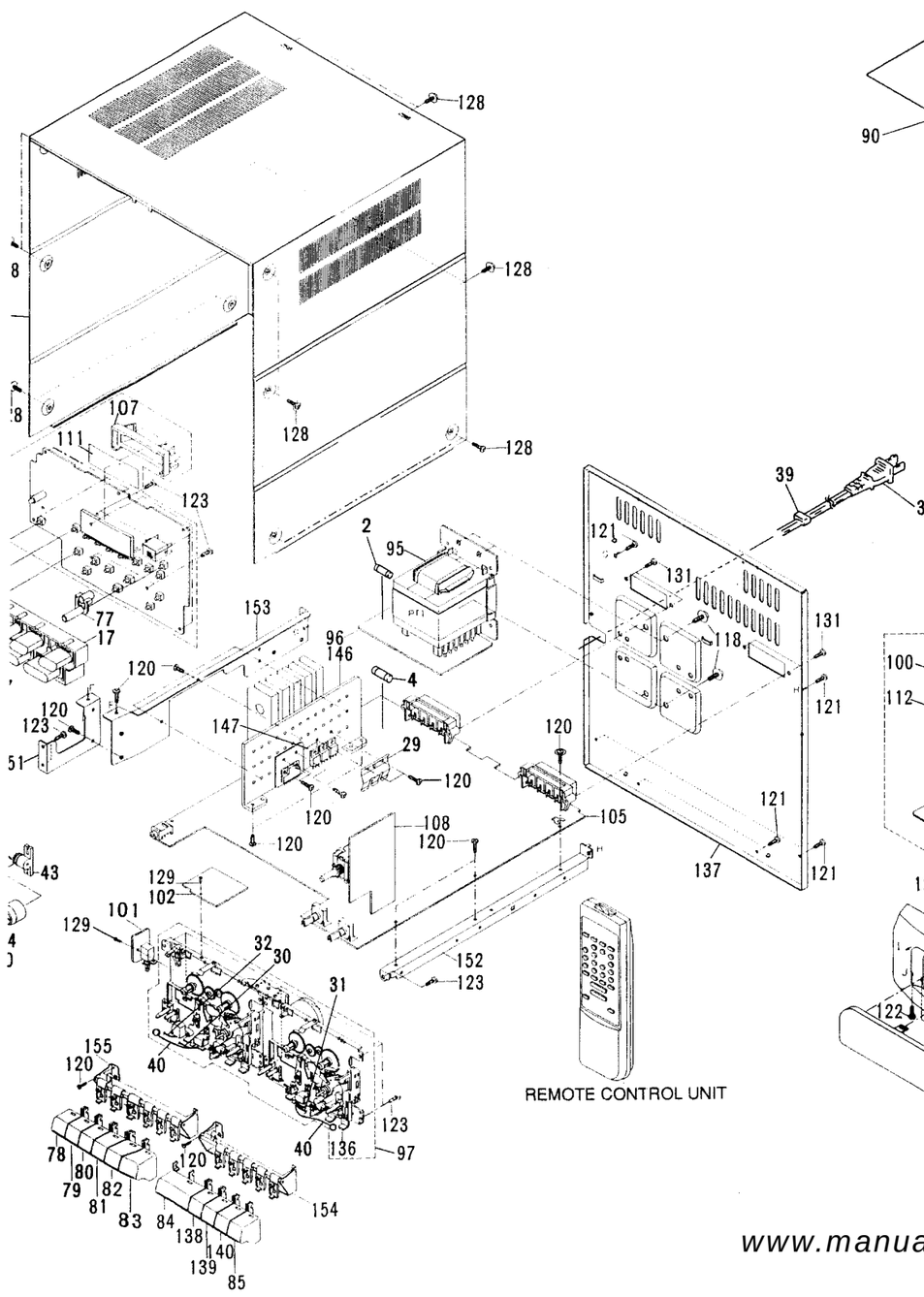
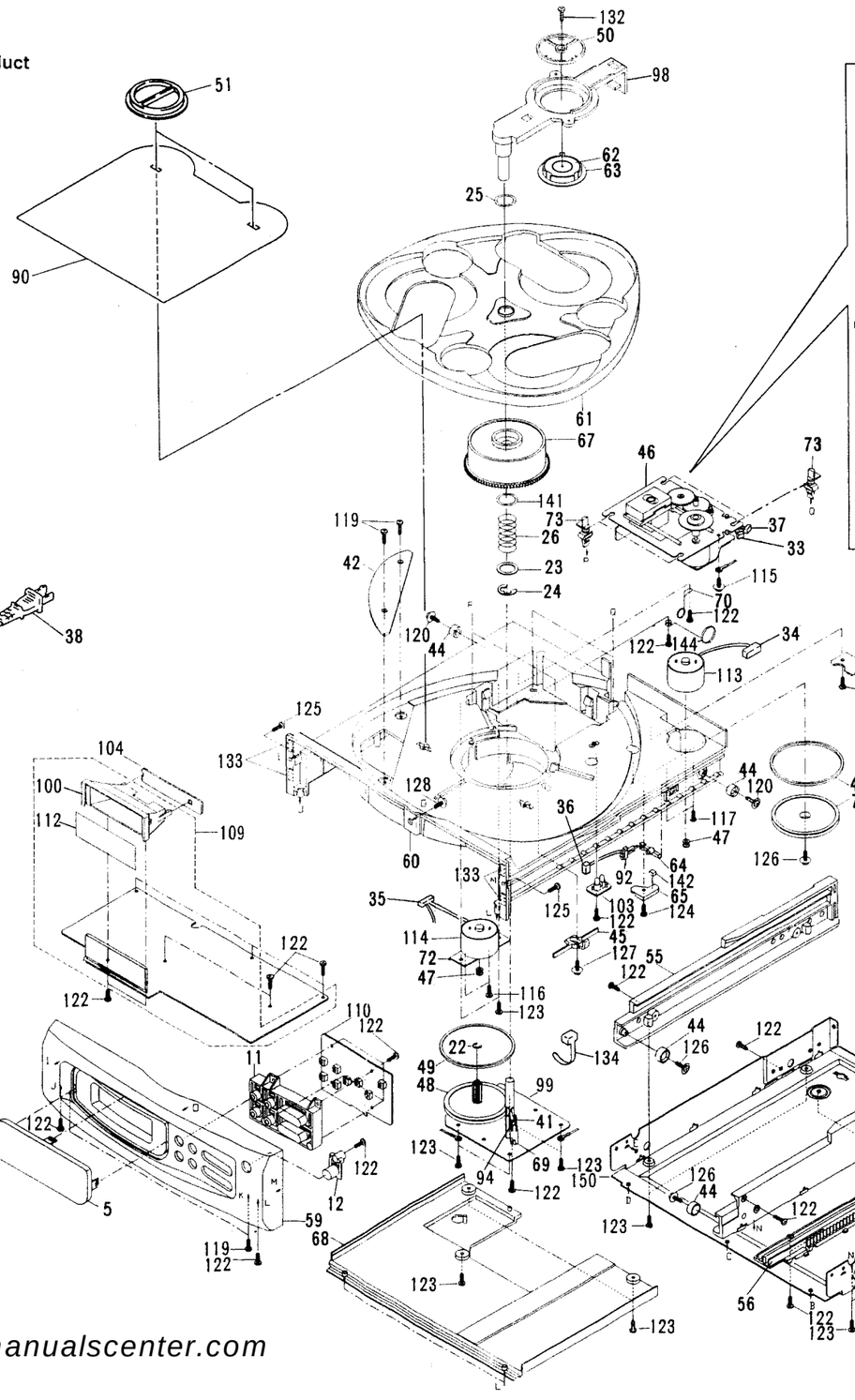
NOTE: Screws adjacent to ▼ mark on the product are used for disassembly.





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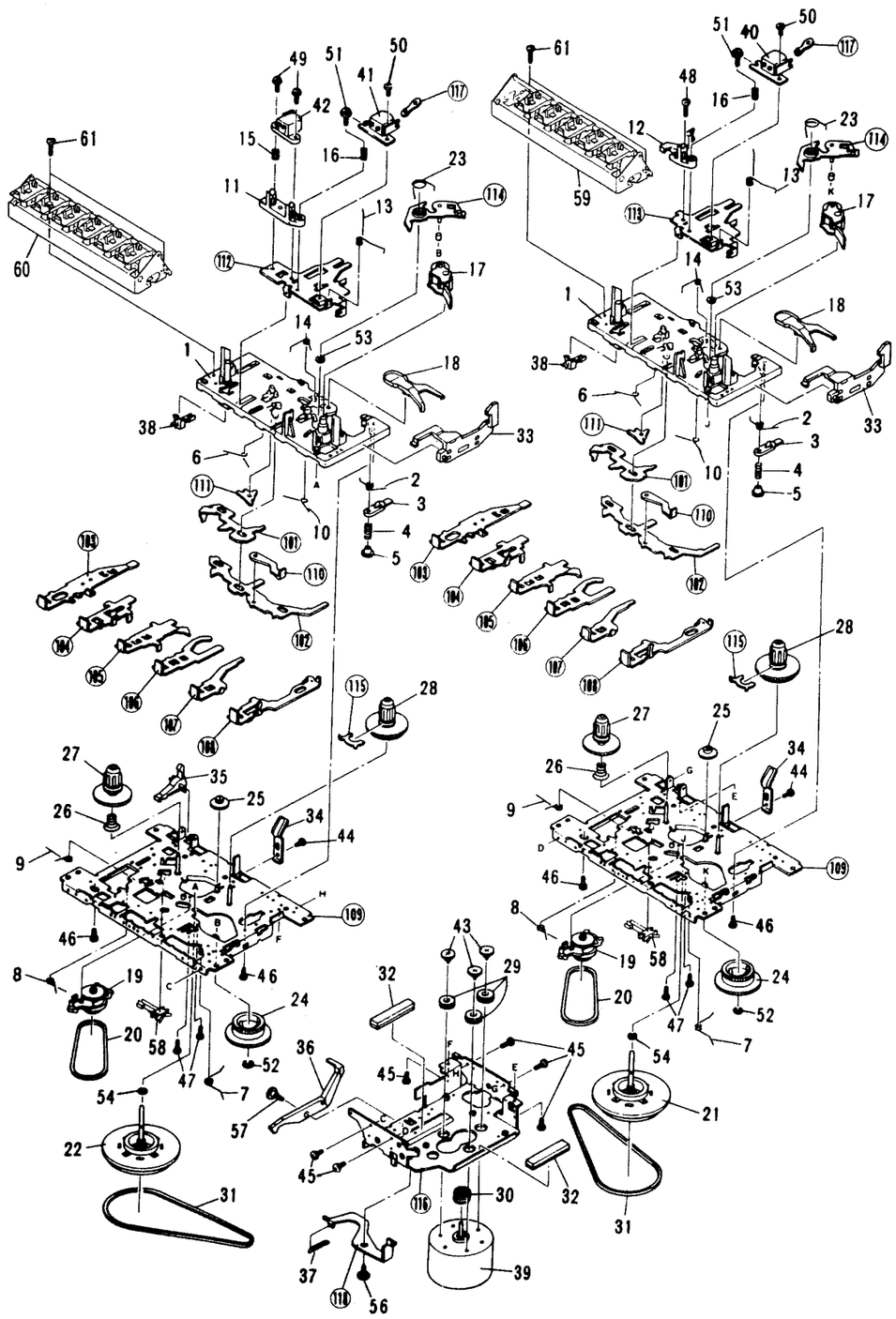
8.3 CASS. DECK ASSY

Parts List

Mark	No.	Description	Parts No.
	1	BASE ASSEMBLY	AZN1641
	2	CONTROL SPRING	AZN1642
	3	PAUSE LEVER	AZN1643
	4	PAUSE LEVER SPRING	AZN1644
	5	PAUSE STOPPER	AZN1645
	6	BUTTON LEVER SPRING (A)	AZN1646
	7	ACTUATOR SPRING	AZN1647
	8	PS LEVER SPRING	AZN1648
	9	REC BUTTON LEVER SPRING	AZN1649
	10	BUTTON LEVER SPRING (B)	AZN1650
	11	HEAD BASE	AZN1651
	12	HEAD BASE	AZN1652
	13	PANEL P SPRING	AZN1653
	14	CONTROL SPRING	AZN1654
	15	SPRING	AZN1655
	16	AZIMUTH SPRING	AZN1656
	17	PINCH ROLLER ARM ASSEMBLY	AZN1657
	18	SENSING LEVER	AZN1672
	19	RF CLUTCH ASSEMBLY	AZN1658
	20	RF BELT	AZN1659
	21	FLYWHEEL ASSEMBLY	AZN1660
	22	FLYWHEEL ASSEMBLY	AZN1661
	23	GEAR PLATE SPRING	AZN1662
	24	CAM GEAR	AZN1663
	25	FF GEAR	AZN1664
	26	BACK TENSION SPRING	AZN1665
	27	SUPPLY REEL ASSEMBLY	AZN1666
	28	TAKE-UP REEL ASSEMBLY	AZN1667
	29	MOTOR RUBBER	AZN1668
	30	MOTOR PULLEY	AZN1669
	31	MAIN BELT	AZN1670
	32	ANTI VIBRATION FELT MAT	AZN1671
	33	EJECT SLIDE LEVER	AZN1677
	34	PACK SPRING	AZN1673
	35	RECORD SAFETY LEVER	AZN1674
	36	KICK LEVER (B)	AZN1679
	37	KICK LEVER SPRING	AZN1676
	38	LEAF SWITCH	AZS1068
	39	MOTOR	AZX1033
	40	P HEAD	AZP1028
	41	P/R P HEAD	AZP7006
	42	E HEAD	AZP1030
	43	SCREW	AZB1215
	44	SCREW	AZB1216
	45	SCREW	AZB1217
	46	SCREW	AZB1218
	47	SCREW	AZB1219
	48	SCREW	AZB1220
	49	SCREW	AZB1221
	50	SCREW	AZB1222
	51	SCREW	AZB1223
	52	WASHER	AZB1224
	53	WASHER	AZB1225
	54	WASHER	AZB1226
	55	E RING	AZB1227
	56	SCREW	AZB1228
	57	SCREW	AZB1229
	58	LEAF SW	AZS7002
	59	BUTTON FRAME ASSY	AZN7101
	60	BUTTON FRAME ASSY	AZN7102
	61	SCREW	AZB7020
NSP	101	SWITCH ACTUATOR	.....
NSP	102	PUSH BUTTON ACTUATOR	.....
NSP	103	REC BUTTON LEVER	.....
NSP	104	PLAY BUTTON LEVER	.....
NSP	105	REW BUTTON LEVER	.....
NSP	106	FF BUTTON LEVER	.....
NSP	107	STOP BUTTON LEVER	.....
NSP	108	PAUSE BUTTON LEVER	.....
NSP	109	CHASSIS ASSEMBLY	.....
NSP	110	KICK LEVER	.....
NSP	111	STOPPER	.....
NSP	112	HEAD PANEL	.....
NSP	113	HEAD PANEL	.....
NSP	114	GEAR PLATE ASSEMBLY	.....
NSP	115	SENSOR	.....
NSP	116	MOTOR BRACKET	.....
NSP	117	LUG PLATE	.....
NSP	118	KICK LEVER (A)	.....



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9. PCB PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47K ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/8PM 5 6 1 J
47 kΩ → 47 × 10³ → 473 ..... RD1/4PS 4 7 3 J
0.5 Ω → 0R5 ..... RN2H 0 R 5 K
1 Ω → 010 ..... RS1P 0 1 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Parts No.

LIST OF ASSEMBLIES

	MAIN PCB ASSY (KITS)	AZW7159
	├ MAIN PCB ASSY	AZW7163
NSP	├ AC SUPPLY PCB ASSY	AZW7167
NSP	├ CONNECTOR PCB ASSY	AZW7170
NSP	├ R/P SW PCB ASSY	AZW7171
NSP	├ VR PCB ASSY	AZW7172
NSP	└ VOLTAGE SEL. PCB ASSY (SDXJ, SDXJ/NC, SLXJ/NC only)	AZW7183
	CD DECORDER ASSY (KITS)	AZW7173
	├ CD DECORDER PCB ASSY	AZW7174
NSP	├ CD CONTROL PCB ASSY	AZW7175
NSP	├ CD LAMP PCB ASSY	AZW7176
NSP	└ CD SENSOR PCB ASSY	AZW7177
	FRONT PCB ASSY	AZW7184

MAIN PCB ASSY

SEMICONDUCTORS

IC101	LA1186N
IC102	LA1805
IC201	LC7821
IC202, IC251	NJM4558LD
IC401	AZQ7029
IC501	NJM7812FAS
IC502	NJM7824A
IC503	NJM78L05A
IC601	TA7784P
IC602	AZQ7010
ICP501, ICP502	ICP-N38
Q101	2SC1674
Q102, Q110, Q111	2SC1675
Q103	2SK161
Q104-Q106, Q109, Q112, Q613	2SC945
Q6011, Q6012, Q6031, Q6032, Q6A03	2SC945
Q107, Q108, Q403, Q606, Q612	2SA733
Q401, Q503	DTA124ES
Q501	2SC2705
Q502	2SA1145
Q402, Q504, Q6A01	DTC124ES
Q505	DTA114ES
Q506	2SK246
Q507	AZQ7032
Q508	2SB826
Q609, Q611, Q6071, Q6072, Q6081	2SC2001
Q6082	2SC2001
Q4011, Q4012	2SC2878A
Q6041, Q6042	RN1201
D101, D102	AZQ7012
D103, D203, D204, D401, D610A, D610B	1SS176T
D603A, D604, D607	1SS176T
D608, D611-D613	1SS176T
D104A, D104B	AZQ7006
D105, D107, D108, D402, D403	1N4148
D201, D202, D509, D603, D605, D606	1N4148
D106	MTZ5.6B
D501, D502	RD15EB
D503	RD36EB1
D504-D508, D511, D511A, D601, D602	1N4002L
D510	RD10EB2
D614	MTZ4.7B

COILS AND FILTERS

L101		AZT7005
L102		AZT1074
L103		AZT1072
L104		AZT7029
L501		AZT7050
L6011, L6012		AZT7020
L604		AZT7048
L605		AZT7047
L606		AZT7021
CF101,CF102	CERAMIC F SFE10.7MA5	AZT7015
CF103	CERAMIC F. SFZ450G3L	AZT7004

TRANSFORMERS

T101	FM IF TRANS	AZT1080
T102	MW OSC COIL	AZT7003
T103	AM IF TRANS	AZT1082

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Mark	No.	Description	Parts No.
	JK401	4P SPEAKER TER.	AZK7065
	P	ADJ, HEADER 8P TKC-M0BP B1	AZK7154
	V	TERMINAL PIN	AZK7159
	S	10P FTW TOP BASE	AZK7067
	T	5P FTW TOP BASE	AZK7010
		HEAT SINK (S) AL	AZN7256

AC SUPPLY PCB ASSY

RESISTORS

	R521		AZC7023

OTHERS

	A	WIRE HOLDER 6P20	AZK7097
	F501	FUSE HOLDER	AZK7158
	TP502, TP503	TERMINAL PIN "L"	AZK7079

CONNECTOR PCB ASSY

OTHERS

		4P CON. ASSY 140M/M (CONNECTOR PCB Y-R/P DECK SW)	AZD7021
		4P CON. ASSY 240M/M (CONNECTOR PCB X-R/P DECK SW)	AZD7022
	S	WIRE HOLDER 1025	AZK7055
	Z	WIRE HOLDER 4P25	AZK7054

R/P SW PCB ASSY

SWITCHES

	S604		AZS1058

OTHERS

	T	WIRE HOLDER 5P20	AZK7051
	TP611	TERMINAL PIN "K"	AZK7052

VR PCB ASSY

SEMICONDUCTORS

	IC252		LB1641
	Q281		DTA124ES
	Q2811, Q2812		2SC945
	D251		MTZ4.7B

CAPACIRORS

	C262		CKPUYY103M16
	C282		CKPUYF104Z50
	C2811, C2812		CEASR22M50

RESISTORS

	VR281		AZC7031
	Other Resistors		RD1/6PM□□□J

Mark	No.	Description	Parts No.
		3P FTW TOP BASE (2.0)	AZK7018
	P	TKC-M 8P ADJ. SOCKET	AZK7155

CD DECORDER PCB ASSY

SEMICONDUCTORS

	IC01		AZQ7016
	IC03		AZQ7033
	IC04		CXD2508AQ
	IC05		AZQ7019
	IC06, IC07		NJM4558LD
	Q01-Q04		2SA952L
	Q05, Q10, Q12		2SC2001
	Q06, Q14, Q17		2SA733
	Q08, Q13		DTC124ES
	Q09, Q15, Q16		2SC945
	Q11		2SC2060R
	Q18		DTA143ES
	D01, D02, D04, D11, D12		1SS176T
	D14-D16		1SS176T
	D03, D13		RD5.1ESB1
	D05-D08		1N4002L
	D09		RD9.1ESB
	D10		RD5.6ESB2

COILS AND FILTERS

	CF01	(4.0MGW)	AZC7102
	L01-L03		AZT7016
	L04		AZT7017

CAPACITORS

	C01		CKPUYX472M16
	C02, C03, 011, C30, C53, C61		CEAS101M10
	C04, C06, C10, C12, C20, C27		CKPUYF103M16
	C36, C42		CKPUYF103M16
	C05, C07		CQMA333J50
	C21		CQMA473J50
	C11A, C13, C15-C18, C23		CKPUYF104Z50
	C32, C34, C45, C47, C66, C73		CKPUYF104Z50
	C14		CKPUYX222M16
	C19, C41, C48		CEAS4R7M50
	C22, C29, C60		CEAS471M10
	C09, C25		CEASR47M50
	C24, C82		CEAS220M25
	C28		CQMA104K50
	C31		CKPUYF473Z50
	C33		CKPUYX152M16
	C35		CQMA223J50
	C37		CKPUYB221K50
	C43, C64, C68		CKPUYB102K50
	C44, C82		CEAS100M25
	C46		CEAS010M50
	C54		CEAS101M16
	C55		AZC7110
	C59		CEAS471M16
	C56		CEAS222M16

Mark	No.	Description	Parts No.
	T104	FM DFT	AZT1081
CAPACITORS			
	C99, C101, C102, C127-C129		CKPUYB102K50
	C144, C147-C149, C151, C152, C603		CKPUYB102K50
	C100, C145, C150		CKPUYB221K50
	C103		CCPUSL3R3K50
	C104, C110, C112, C118		CKPUYF223Z25
	C119, C125, C126, C137, C139		CKPUYF223Z25
	C404, C405, C407, C520		CKPUYF223Z25
	C608, C608A, C651, C653A, C655		CKPUYF223Z25
	C656, C4151, C4152, C6A55		CKPUYF223Z25
	C105		CCPUCH180J50
	C159		CKPUYB391K50
	C106		CCPUCH4R7K50
	C107		CCPUSL2R2K50
	C108, C123, C2541, C2542		CCPUSL560J50
	C109		CKPUYB101K50
	C113		CKCYX104M16
	C114, C2081, C2082, C2581, C2582		CKPUYB471K50
	C4111, C4112, C6201, C6202, C6211		CKPUYB471K50
	C6212, C6441, C6442		CKPUYB471K50
	C115		CQPA561J100
	C116		CCPUCH120J50
	C117, C503, C508, C519, C6231		CEAS100M50
	C6232, C6421, C6422, C6A05		CEAS100M50
	C121, C181		CKPUYX472M16
	C122, C141, C142		CEAS3R3M50
	C124, C130, C157, C403, C617		CEAS101M16
	C619, C625, C626, C6121, C6122		CEAS101M16
	C131		CKCYF223Z50
	C132, C135, C158		CKPUYF104Z50
	C502, C504, C521A, C4112A		CKPUYF104Z50
	C133, C627, C634		CEAS220M16
	C134		CCPUSL470J50
	C136, C1541, C1542, C2551, C2552		CEAS010M50
	C6331, C6332		CEAS010M50
	C140		CKPUYB221K50
	C143		AZC7074
	C146		CCPUSL300J50
	C206		CEAS0R1M50
	C207, C208, C210, C211, C213		CEAS470M16
	C214, C406, C628, C653, C4071, C4072		CEAS470M16
	C408, C518		CEAS102M50
	C501, C654		CEAS471M16
	C200		CEAS471M50
	C506, C506A, C507, C509		CEAS221M16
	C510, C511		CEAS220M50
	C512		CEAS222M50
	C514-C517		AZC7103
	C526		CEAS331M16
	C602		CEAS471M10
	C607, C2121, C2122, C4051, C4052		CEAS4R7M50
	C6161, C6162, C6221, C6222		CEAS4R7M50
	C648		CQMA103K50
	C649		CKPUYX472M16
	C650		CQMA153K50
	C652		CQPA223J100
	C1561, C1562, C2531, C2532		CKCYX183M16
	C2031, C2032, C2041, C2042, C6061		CEAS2R2M50
	C6062, C6A01, C6A02		CEAS2R2M50
	C2091, C2092		CCPUCH100J50
	C2521, C2522, C6291, C6292, C6301, C6302		CKPUYB271K50
	C4021, C4022		CKPUYB820K50
	C4081, C4082		CQMA104K50
	C4091, C4092		CEAS102M25
	C6131, C6132, C6141, C6142		CKPUYB681K50
	C6151, C6152		CKPUYF103Z25
	C6321, C6322		CEANP010M50
	C6351, C6352, C6A10, C6A11		CKPUYX152M16
	TC101-TC103		AZC7104
RESISTORS			
	R103, R139		RD1/4PM104J
	R105, R202, R209, R213, R4081, R4082		RD1/4PM102J
	R113		RD1/4PM101J
	R129		RD1/4PM473J
	R132		RD1/4PM470J
	R201, RA418		RD1/4PM103J
	R219, R220		RD1/4PM821J
	R408		RS1LMF100J
	R148		AZC7002
	R500		AZC7107
	R501, R504		RD1/4PM331J
	R502		RS1/2LMF102J
	R503		RS2LMF821J
	R505		AZC7106
	R509A		RD1/4PM010J
	R512		RT5B821K
	R513		RS1LMF271J
	R608, R616		RD1/4PM271J
	R658		RD1/2PM511J
	R1461, R1462		RD1/4PM272J
	RA418		RD1/4PM153J
	RA419		RD1/4PM103J
	R4111, R4112		RS1/2LM331J
	R6111, R6112		RD1/4PM682J
	VR251,VR252	VR 100KB x 2	AZC7109
	VR101, VR609		AZT7049
	FR4091,FR4092	FUSE R, 1/4W 2.2S	AZC7108
	Other Resistors		RD1/6PM□□□J
OTHERS			
		SCREW	BBZ30P060FMC
	A, B	6P FTW TOP BASE (2.0)	AZK7019
	CN601	3P TOP BASE	AZK1074
	CN602	5P TOP BASE	AZK1076
	CN603	2P TOP BASE	AZK1073
	F	4P FTW TOP BASE	AZK7096
	G	PH 10P TOP BASE	AZK7074
	HP401	HP JACK	AZK7153
	I	MT 8P TOP BASE	AZK7077
	JK101	4P AMT TER.	AZK7063

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Mark	No.	Description	Parts No.
	C08, C57, C58, C63		CKPUYF223Z25
	C62		CEANP010M50
	C65		CKPUYB101K50
	C69		CCPUSL240J50
	C70		CCPUSL220J50
	C71L, 71R		CKPUYB151K50
	C74L, 74R, 75L, 75R		CCPUSL470J50
	C76L, 76R		CKPUYX272M16
	C77, C87R		CQPA471J100
	C78L, C78R		CKPUYY822M16
	C79L, C79R		CEASR47M50
	C81		CEAS330M/6

RESISTORS

R67		RS1LMF181J
R68		RS1LMF151J
R69		RD1/4PM102J
VR01		AZC7105
Other Resistors		RD1/6PM□□□J

OTHERS

	LCD DISPLAY HOLDER	AZA7093
	SCREW	BBZ30P060FMC
CN01	PH 5P TOP BASE	AZK7012
CN02	PH 8P TOP BASE	AZK7022
CN03	6P CON. ASSY 400M/M	AZD7028
CN04	WIRE HOLDER 3P20	AZK7058
CN05	EH 3P SIDE BASE	AZK7086
CN06	EH 2P SIDE BASE	AZK7085
CN07	EH 4P SIDE BASE	AZK7087
CN08	10P CON. ASSY 600M/M	AZD7063
CN08	WIRE HOLDER 11P20	AZK7078
CN09	WIRE HOLDER 8P20	AZK7071
CN10	WIRE HOLDER 2P20	AZK7061
CN15	EH 2P TOP BASE	AZK7068
LCD01	LCD DISPLAY	AZA7092
XTL01	X'TAL (33.8688MHz)	AZC7058
	EARTH TER ASSY BLK 2	AZK7105
	FILTER PLATE	AZK7156
	CD DECO PCB	AZN7290

CD CONTROL PCB ASSY

SWITCHES

S01-S08		AZS7015

OTHERS

CN09	WIRE HOLDER 8P20	AZK7071

CD LAMP PCB ASSY

OTHERS

CN10	WIRE HOLDER 2P20	AZK7061
LP01, LP02	PILOT LAMP (6V/60MA)	AZE7006

Mark	No.	Description	Parts No.

CD CENSOR PCB ASSY

SEMICONDUCTORS

D17		AZQ7031
PH01		AZQ7007

OTHERS

	2 LED HODLER	AZK7059
CN04	WIRE HOLDER 3P20	AZK7058

FRONT PCB ASSY

SEMICONDUCTORS

IC001		AZQ7015
D001, D004-D010, D019		1N4148
D002, D003, D011, D013, D014–D18, D020		1SS176T
D025		AZA7089

CAPACITORS

C001, C004, C008, C011		CKPUYF104Z50
C003		CEAS472M10
C002, C005, C015, C016		CKPUYF223Z25
C006		CCPUCH100J50
C007		CCCCH220J50
C009, C017, C018		CKPUYB151K50
C010		CKPUYB101K50
C012		CKPUYY103M16

RESISTORS

R001		RD1/4PM190J
R016		RD1/4PM131J
Other Resistors		RD1/6PM□□□J

SWITCHES

S001-S008		AZS7014

OTHERS

	FRONT ASSY PCB	AZN7300
I	8P CON. ASSY 300M/M	AZD7023
H	2P CON. ASSY 300M/M	AZK7020
	DISPLAY CHASSIS	AZN7166
	DISPLAY PLATE	AZA7095
	LED HOLDER	AZK7050
	SCREW	BBZ30P100FMC
B	WIRE HOLDER 6P20	AZK7097
F	WIRE HOLDER 4P20	AZK7098
LCD001	LCD DISPLAY	AZA7090
LP001, 002	PILOT LAMP (6V/60MA)	AZE7006
SEN001	REMOTE RECEIVER	AZE7019
UD	WIRE HOLDER 3P20	AZK7058
X001	X'TAL (4.5MHz)	AZC1263
V	TERMINAL GRIP ASSY	AZW7188

Mark	No.	Description	Parts No.

VOLTAGE SEL. PCB ASSY (SDXJ, SDXJ/NC, SLXJ/NC ONLY)

SWITCHES

	S020		AZS7006
	S501		AZS7005

OTHERS

	M	2P FTW TOP BASE (2.0)	AZK7011

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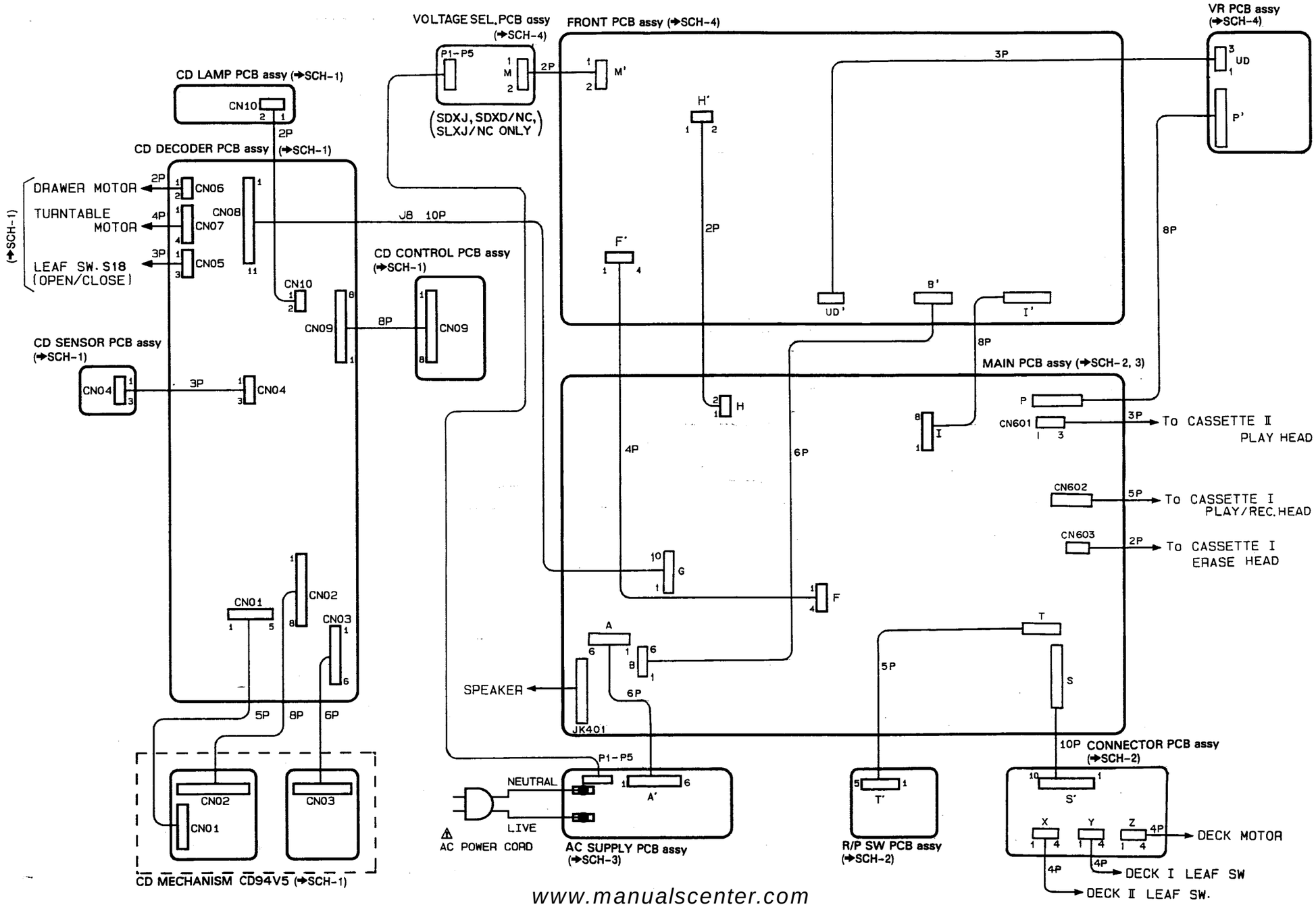
10. CONNECTION DIAGRAM



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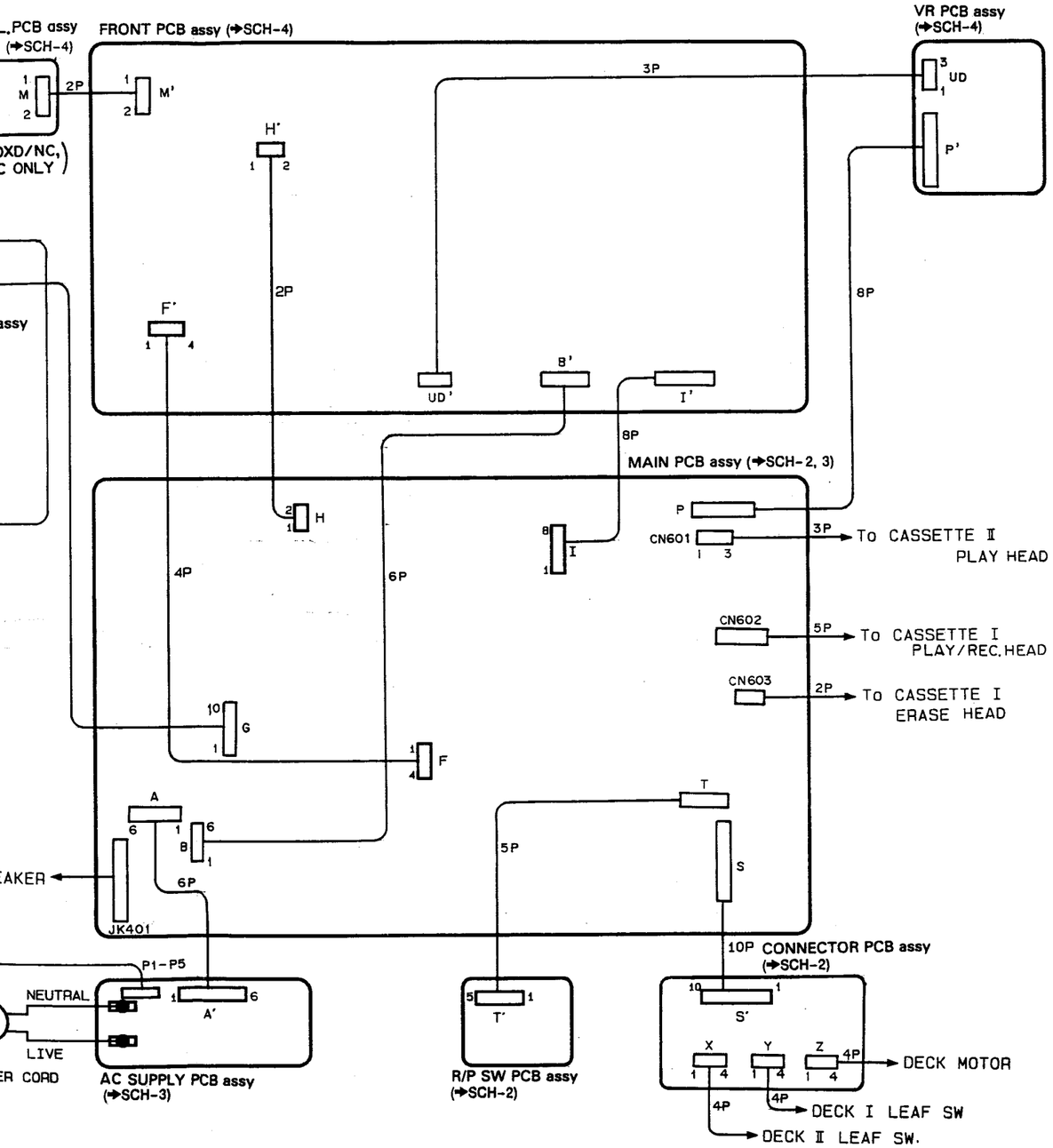

11. SCHEMATIC AND PCB DIAGRAM

NOTE FOR SCHEMATIC DIAGRAMS (Type 1A)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or μF unless otherwise noted.
   Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or μH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   V : Signal voltage at rated output.
   or ← V :
   DC voltage (V) at no input signal unless otherwise noted.
   Value in ( ) is DC voltage at rated power.
   ⇦ mA or ← mA :
   DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ or ⊘ : Adjusting point.
   - : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SCH—□ ON THE SCHEMATIC DIAGRAM:**
   - SCH—□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
9. **SWITCHES** (Underline indicates switch position):

CD CONTROL PCB ASSY
S01 :⏮
S02 :⏭
S03 : SYNCHRO
S04 : PROGRAM
S05 :■
S06 : OPEN/CLOSE
S07 :⏯
S08 : DISC

R/P SW PCB ASSY
S604 : R/P SW

FRONT PCB ASSY
S001 : STATION CALL M1
S002 : STATION CALL M2
S003 : STATION CALL M3
S004 : STATION CALL M4
S005 : STATION CALL M5
S006 : STATION CALL M6
S007 : STATION CALL M7
S008 : STATION CALL M8
S009 : T·UP +
S010 : T DN —
S011 : MEMORY
S012 : MONO
S013 : BAND
S014 : POWER ON/STANDBY
S015 : P.BASS
S016 : TUNER
S017 : CD
S018 : TAPE

VOLTAGE SEL PCB ASSY
S501 : VOLTAGE SELECTOR

NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
Q504 (E) Q504	Q504 Q504	Transistor
D203 D203	D203	Diode
C513 C513	C513	Capacitor (Polarized)

3. The transistor terminal marked with E or ⊏ shows the emitter.
4. The diode terminal marked with ◎ or ⊐ shows cathode side.
5. The capacitor terminal marked with ◎ or ⊏ shows negative terminal.

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11.1 CD DECODER PCB ASSY, CD LAMP PCB ASSY, CD CONTROL PCB ASSY, CD SENSOR PCB ASSY AND C

CD DECORDER PCB ASSY (AZW7174)

CD MECHANISM CD94V5
(AZN7281)

IC01: AZQ7016

IC01 AZQ7016
(CXA1782BQ)
RF/SERVO AMP

Q01, Q02:
SWITCHING

Q03:
T.T. MOTOR
DRIVE

Q04, Q05:
DRAWER
DRIVE

Q06:
SWITCHING

IC05:
4 ch BTL DRIVER

LCD01
DISPLAY AZA7092

DIGITAL S

CD SENSOR PCB
ASSY (AZW7177)

CD DECODER PCB ASSY,
CD LAMP PCB ASSY,
CD CONTROL PCB ASSY,
CD SENSOR PCB ASSY,
CD MECHANISM CD94V5

SCH-1

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B ASSY, CD LAMP PCB ASSY, CD CONTROL PCB ASSY, CD SENSOR PCB ASSY AND CD MECHANISM CD94V5

CD LAMP PCB ASSY (AZW7176)

LCD01
DISPLAY AZA7092

IC01 AZQ7016
(CXA1782BQ)
RF/SERVO AMP

Q01, Q02:
SWITCHING

IC03 AZQ7033
(UPD75312GF-282)
MICROCOMPUTER

Q18:
CD CONTROL

Q08, Q09:
RESET

Q03:
T.T. MOTOR
DRIVE

Q06:
SWITCHING

Q04, Q05:
DRAWER
DRIVE

IC04
CXD2508AQ
DIGITAL SIGNAL PROCESSOR

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D MECHANISM CD94V5

SCH-1

CD LAMP PCB ASSY (AZW7176)

CD CONTROL PCB ASSY (AZW7175)

IC03 AZQ7033
(UPD75312GF-282)
MICROCOMPUTER

IC04
2508AQ
AL PROCESSOR

Q08, Q09:
RESET

Q10 – Q13:
REGULATOR

Q17:
+5V CIRCUIT

Q18:
CD CONTROL

Q11:
MUTING

Q16:
MUTING

Q15:
MUTING

IC6: R ch OP AMP

IC07: L ch OP AMP

TO MAIN PCB ASSY (2/2) (→SCH-3)

SIGNAL ROUTE
⇨: CD SIGNAL ROUTE

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CD DECODER PCB ASSY,
CD LAMP PCB ASSY,
CD CONTROL PCB ASSY,
CD SENSOR PCB ASSY,
CD MECHANISM CD94V5

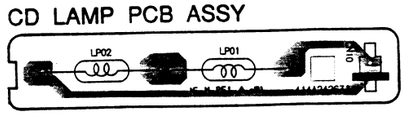
SCH–1

11.2 MAN PCB ASSY (1/2), MAIN PCB ASSY (2/2), CONNECTOR PCB ASSY, R/P SW PCB ASSY, AC SUPPLY PCB ASSY, VR PCB ASSY AND VOLTAGE SEL. PCB

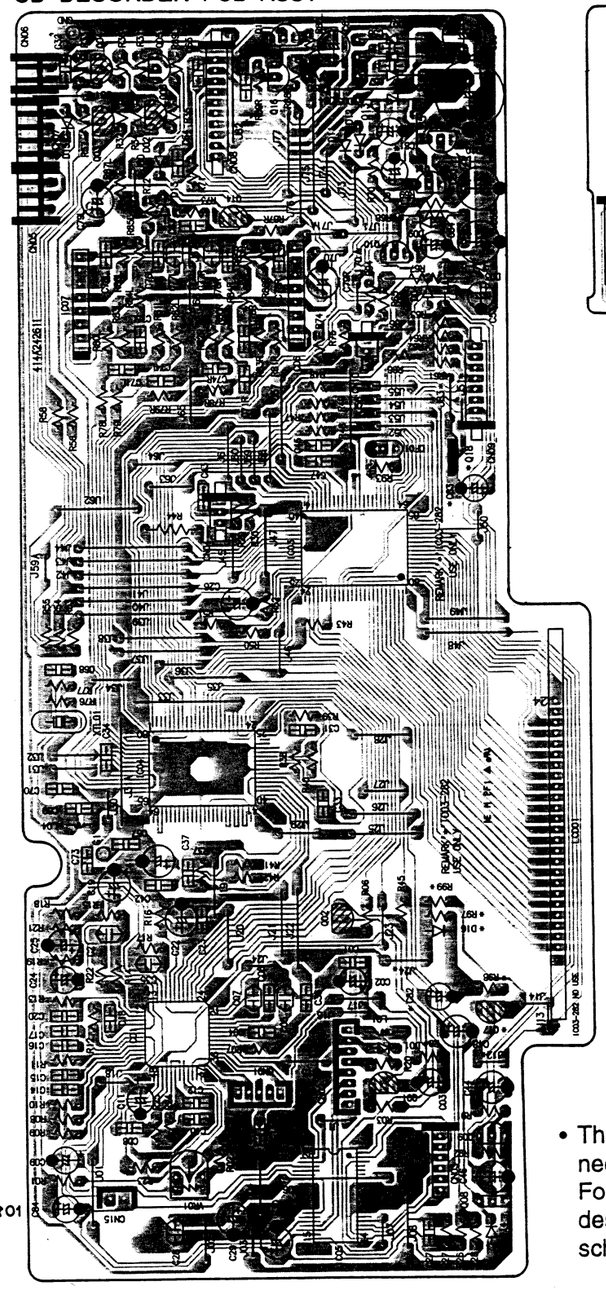
• This diagram is viewed from the mounted parts side.

PCB-1

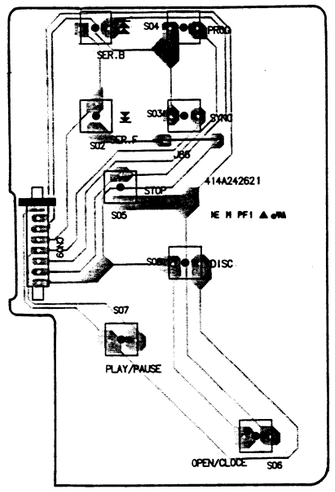
CD LAMP PCB ASSY



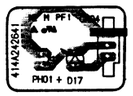
CD DECORDER PCB ASSY



CD CONTROL PCB ASSY

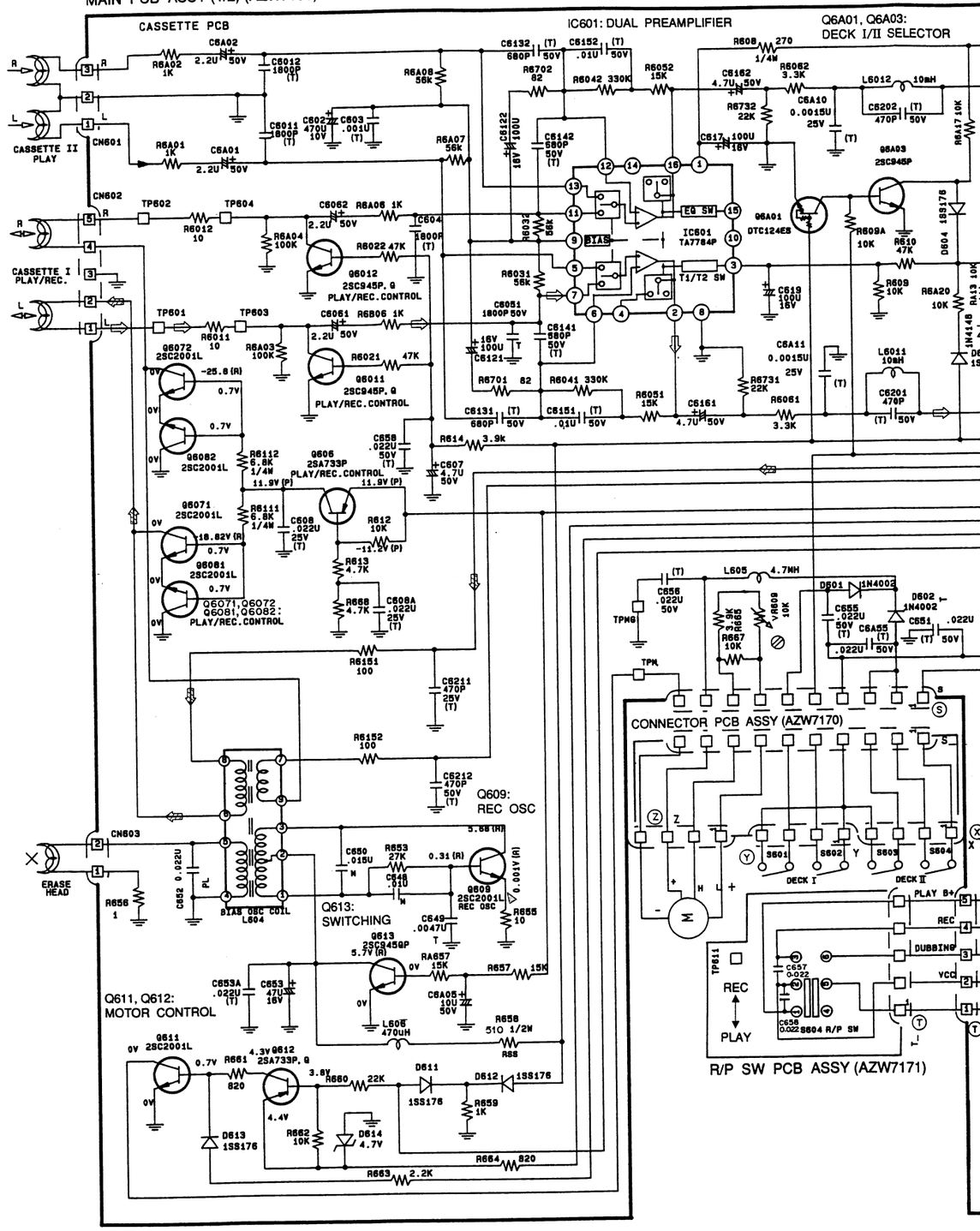


CD SENSOR PCB ASSY



• The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

MAIN PCB ASSY (1/2) (AZW7163)



SCH–2 MAIN PCB ASSY (1/2), CONNECTOR PCB ASSY , R/P SW PCB ASSY

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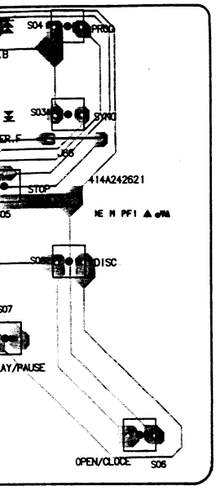
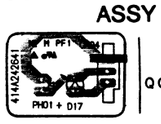
11.2 MAN PCB ASSY (1/2), MAIN PCB ASSY (2/2), CONNECTOR PCB ASSY, R/P SW PCB ASSY, AC SUPPLY PCB ASSY, VR PCB ASSY AND VOLTAGE SEL. PCB ASSY

PCB-1

TROL PCB ASSY



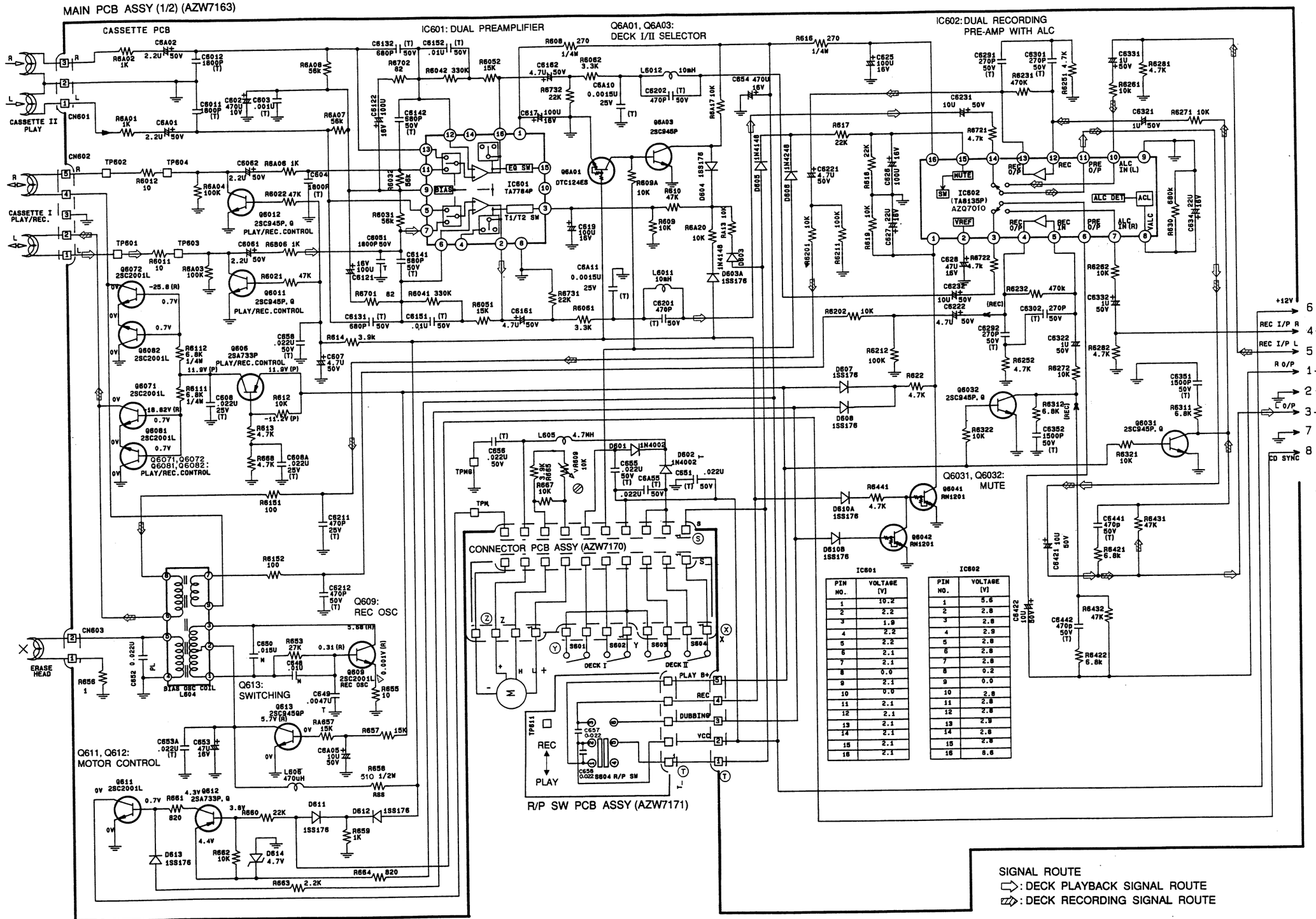
D SENSOR PCB ASSY



Q01

mounted on this PCB include all parts for several destinations. information for respective s, be sure to check with the diagram.

MAIN PCB ASSY (1/2) (AZW7163)



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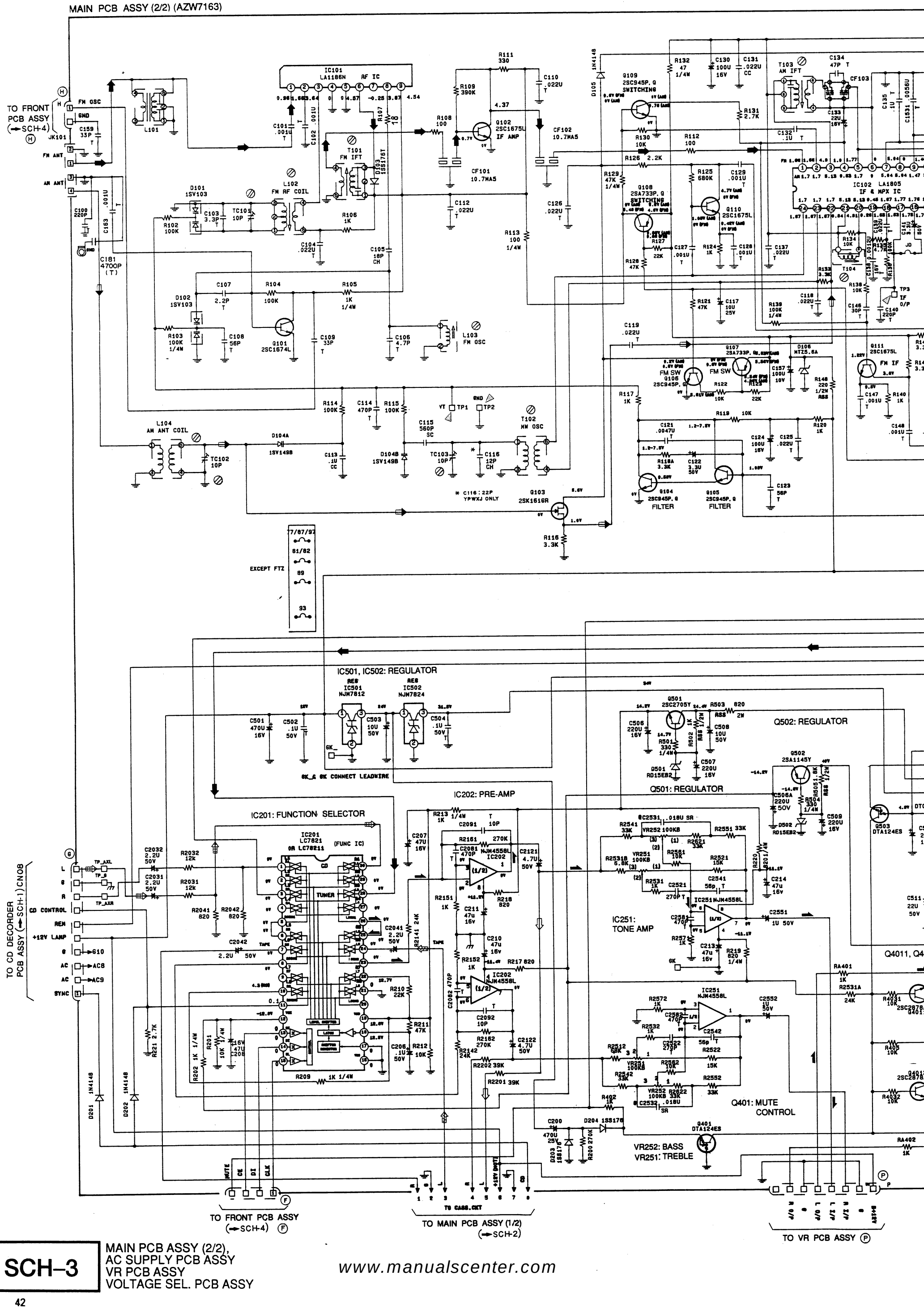
MAIN PCB ASSY (2/2) (AZW7163)



SCH–3

MAIN PCB ASSY (2/2),
AC SUPPLY PCB ASSY
VR PCB ASSY
VOLTAGE SEL. PCB ASSY

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IC101 LA1186N RF IC

T101 FM IFT

T102 MW OSC

T103 AM IFT

T104

L103 FM OSC

CF101 10.7MA5

CF102 10.7MA5

CF103

Q102 2SC1675L IF AMP

Q103 2SK1616R

Q104 2SC945P, Q FILTER

Q105 2SC945P, Q FILTER

Q106 2SC945P, Q FM SW

Q107 2SA733P, Q FM SW

Q108 2SA733P, Q SWITCHING

Q109 2SC945P, Q SWITCHING

Q110 2SC1675L

Q111 2SC1675L FM IF

Q112 2SC945P AM IF AMP

IC102 LA1805 IF & MPX IC

(76KHZ)

TO FRONT PCB ASSY (SCH-4)

TO FRONT PCB ASSY (SCH-4)

TO MAIN PCB ASSY

VR PCB AS

ST/MO
FM STEREO
SD
FM IF
AM IF
AM OSC
ST
FM
+12V
R O
L O
IF OUT
ST/MO
L/IP
R/IP

B+12V
R I/P
L I/P
L O/P
R O/P

TUNER FM

BACK UP +5.5V
POWER ON/OFF
+12V
REM

IC501, IC502: REGULATOR

REG IC501 NJM7812

REG IC502 NJM7824

Q501: REGULATOR

Q502: REGULATOR

IC503: REGULATOR

IC503 78L05

Q503 – Q507, Q509: VOLTAGE LIMITER

AZE7013: KUXJ, KCXJ
AZE7095: SDXJ, SDXJ/NC SLXJ/NC
AZE7012: YPWXJ

IC202: PRE-AMP

IC251: TONE AMP

Q401: MUTE CONTROL

Q4011, Q4012: MUTE

IC401: POWER AMP

Q402: MUTE

VR252: BASS
VR251: TREBLE

RECTIFIER

SELECTOR

TAPE

TO CASS.CKT

TO MAIN PCB ASSY (1/2) (→SCH-2)

TO VR PCB ASSY (P)

TO FRONT PCB ASSY (V) (→SCH-4)

* C116 : 22P YPWXJ ONLY

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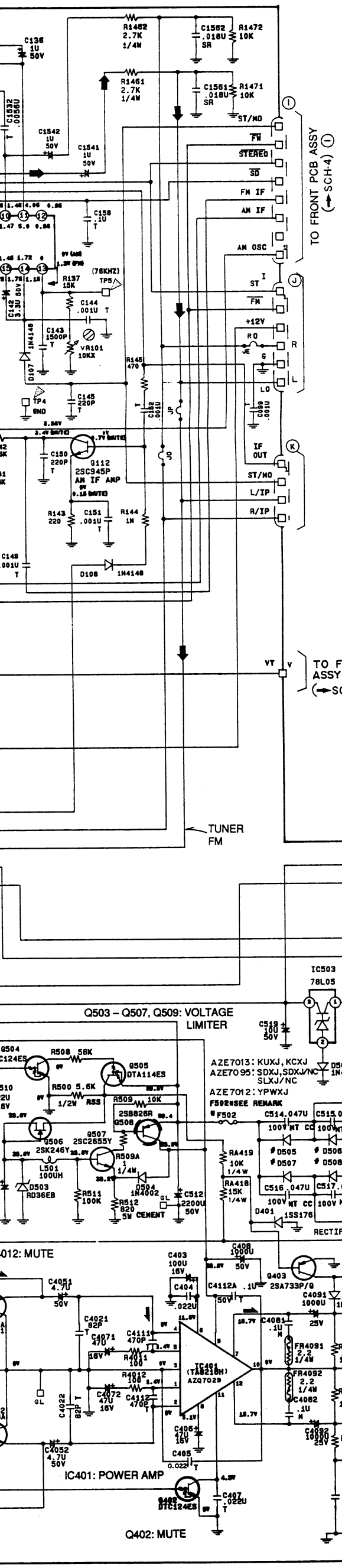
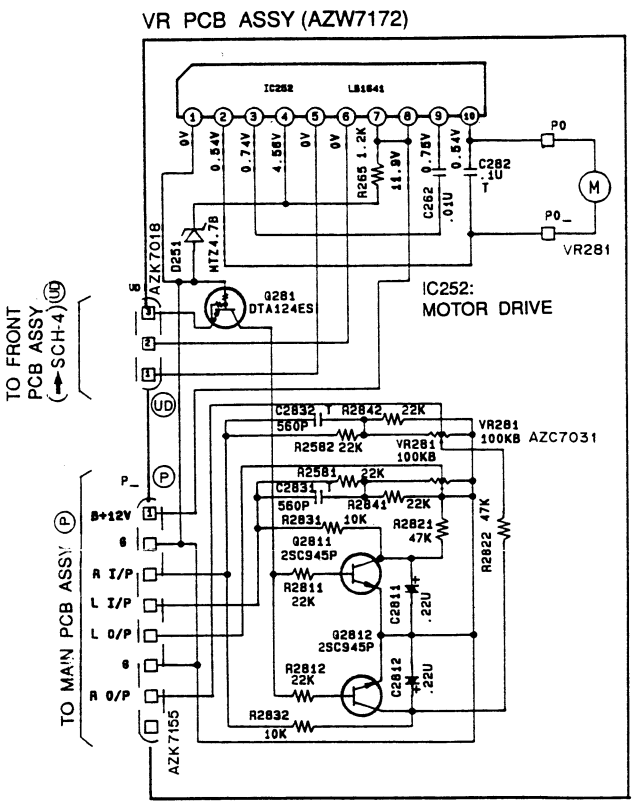
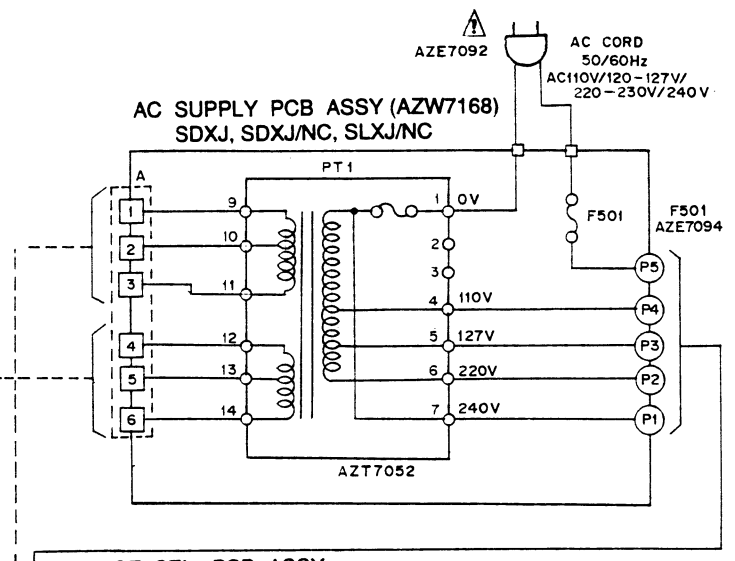
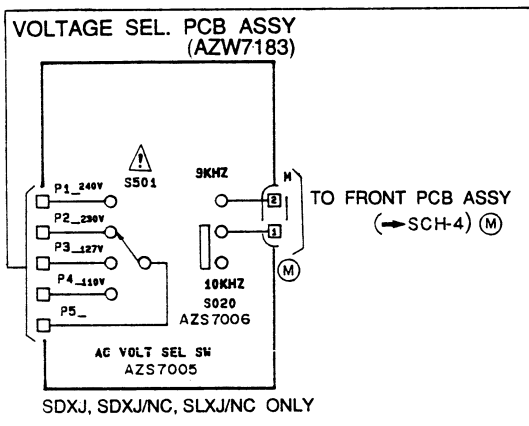


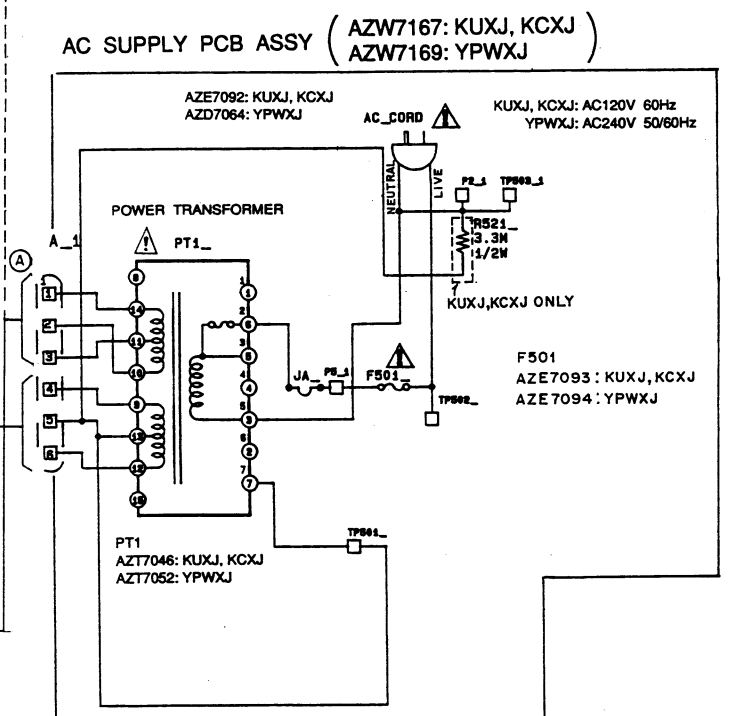






• NOTE FOR FUSE REPLACEMENT

CAUTION-- FOR CONTINUED PROTECTION AGAINST RISK OF FIER. REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.



CAUTION; FOR CONTINUED PROTECTION AGAINST RISK OF FIER. REPLACE ONLY WITH SAME TYPE NO. ICP-N38, MFD BY ROHM CO., LTD FOR ICP501 AND ICP502.

SIGNAL ROUTE
- : TUNER FM SIGNAL ROUTE
- : TUNER AM SIGNAL ROUTE
- : CD AUDIO SIGNAL ROUTE
- : DECK PLAYBACK SIGNAL ROUTE
- : DECK RECORDING SIGNAL ROUTE
- : AUDIO SIGNAL ROUTE

SCH-3

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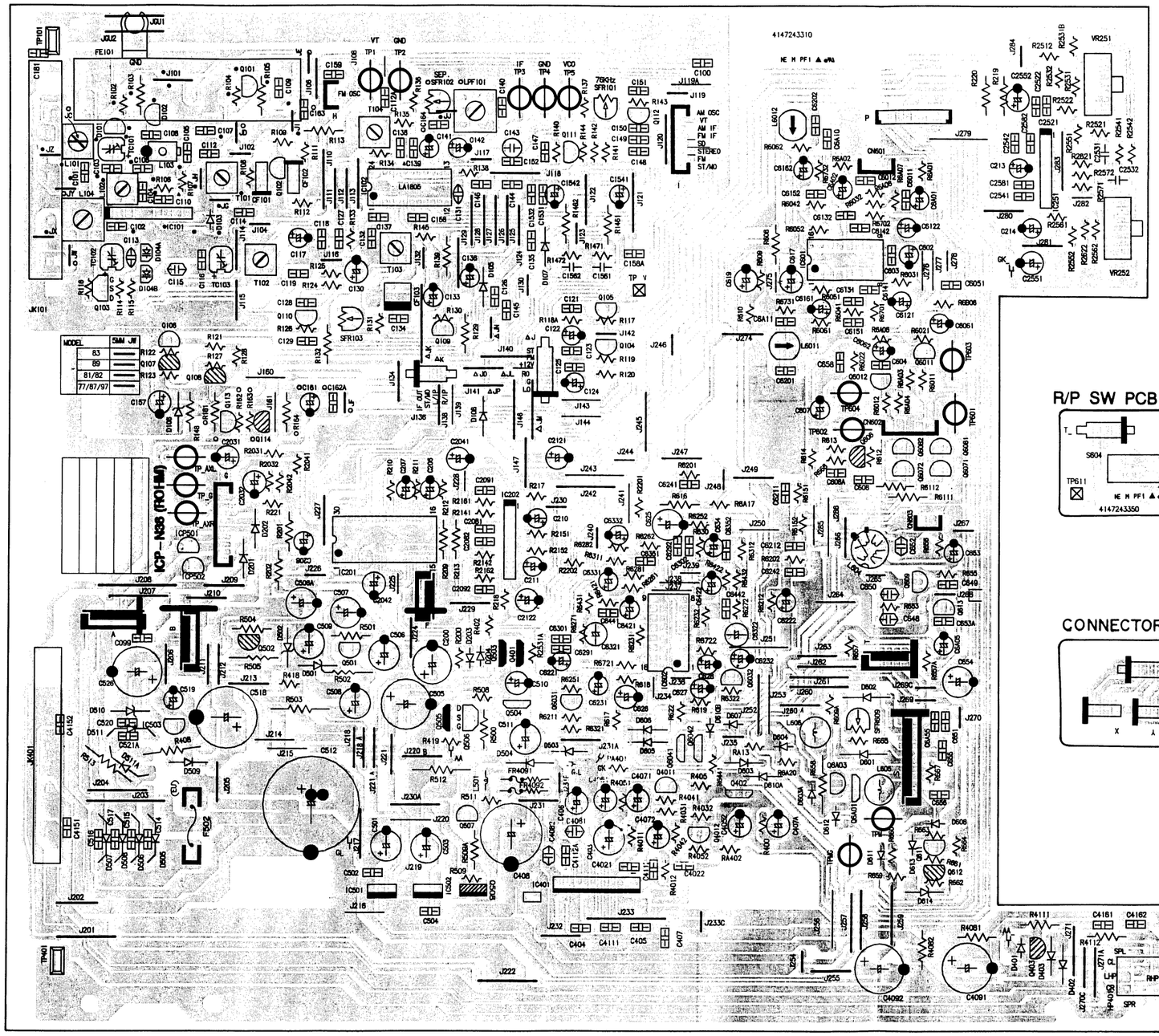
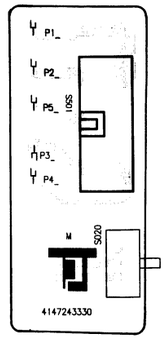
MAIN PCB ASSY (2/2),
AC SUPPLY PCB ASSY
VR PCB ASSY
VOLTAGE SEL. PCB ASSY

SCH–3

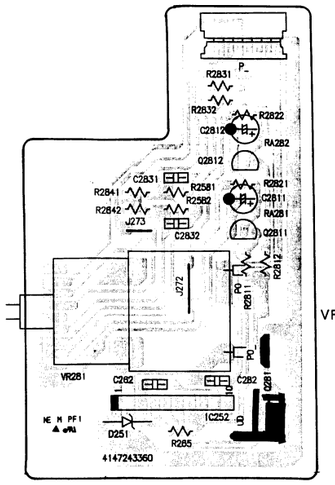
MAIN PCB ASSY



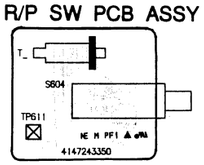
VOLTAGE SEL. PCB ASSY



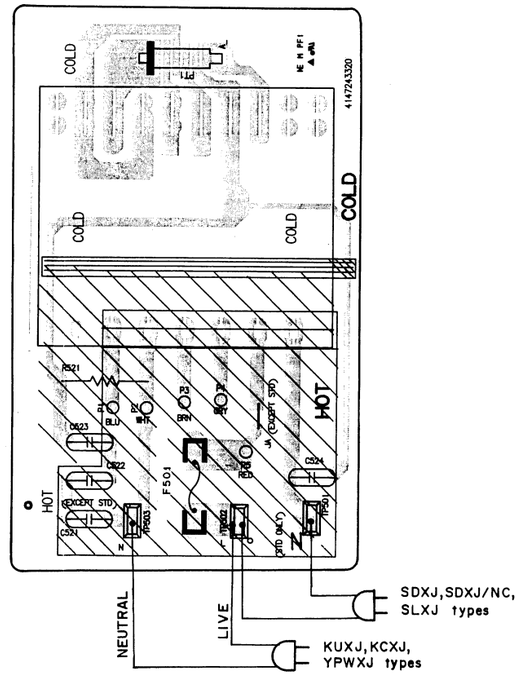
VR PCB ASSY



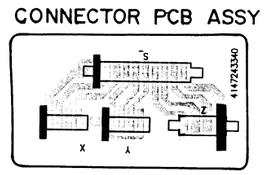
R/P SW PCB ASSY



AC SUPPLY PCB ASSY



CONNECTOR PCB ASSY



- **This diagram is viewed from the mounted parts side.**
- The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

PCB-2

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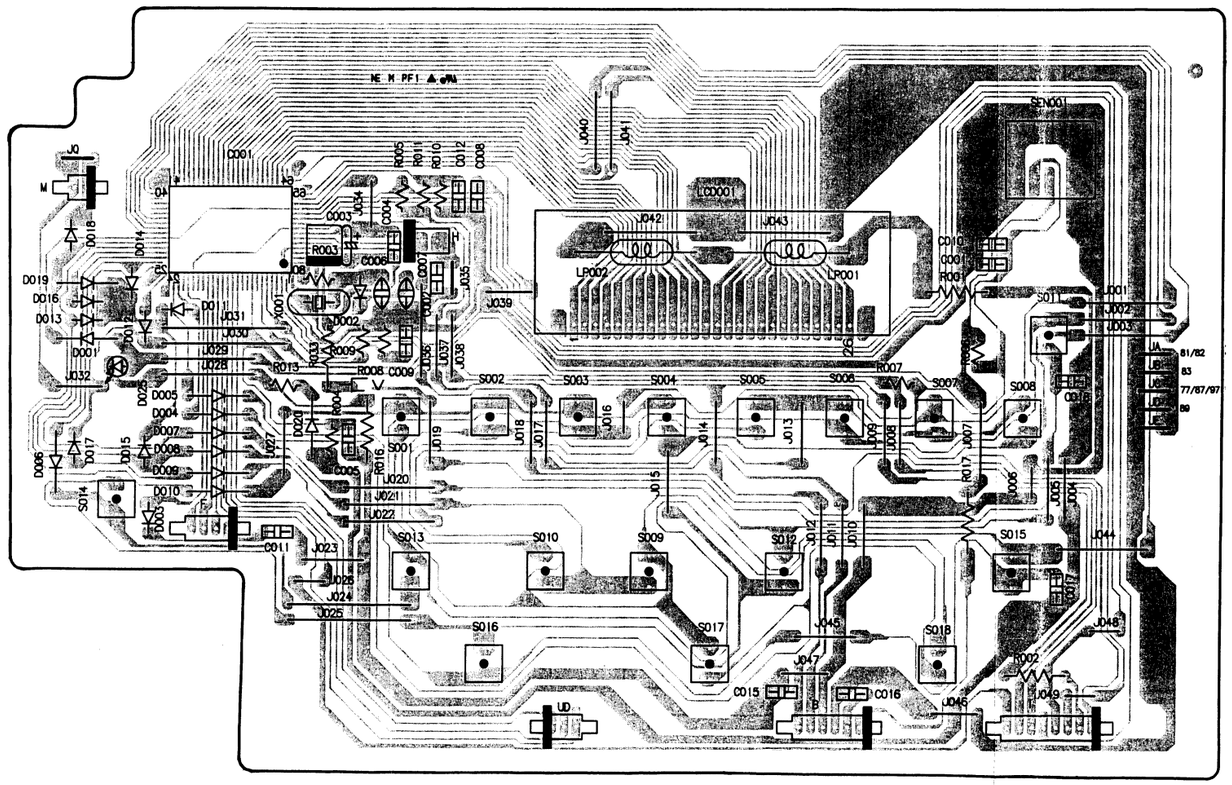
11.3 FRONT PCB ASSY

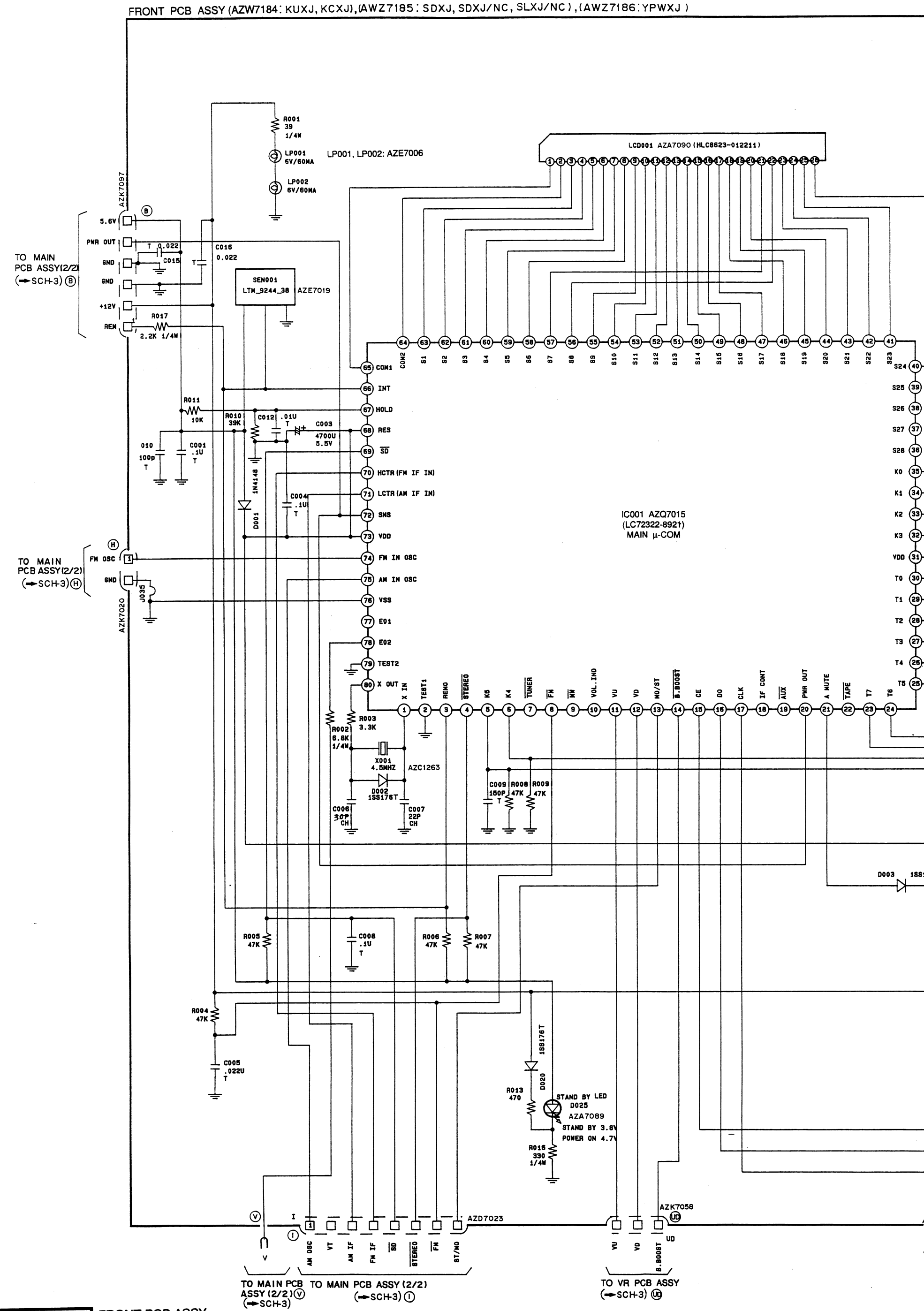
- **This diagram is viewed from the mounted parts side.**
- The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

PCB-3

FRONT PCB ASSY



FRONT PCB ASSY (AZW7184: KUXJ, KCXJ), (AWZ7185: SDXJ, SDXJ/NC, SLXJ/NC), (AWZ7186: YPWXJ)



SCH-4 FRONT PCB ASSY

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ZW7184: KUXJ, KCXJ), (AWZ7185: SDXJ, SDXJ/NC, SLXJ/NC), (AWZ7186: YPWXJ)

R001 39 1/4W

LP001 6V/60MA

LP002 6V/60MA

LP001, LP002: AZE7006

LCD001 AZA7090 (HLC8623-012211)

SEN001 LTM_9244_38 AZE7019

IC001 AZQ7015
(LC72322-8921)
MAIN μ-COM

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S001

TUN S016 · PWR S014 · ST/MO S012 · TAPE S018 · BAND S013 · MEM S011 · T DN S010 · CD S017 · B.BOOST S015 · T UP S009

C017 150P T · C018 150P T

D004–D009 1N4148

D013 1SS176T SHIFT — KUXJ,KCXJ,SDXJ,SDXJ/NC,SLXJ/NC ONLY

D014 1SS176T · D015 1SS176T A/MAN · D016 1SS176T IF CUNT · D017 1SS176T B2 — YPWXJ ONLY

D003, D013–D018: 1SS176T

D003 1SS176T

C011 .1U T

C012 .01U T · C003 4700U 5.5V · C004 .1U T · D001 1N4148

R002 6.8K 1/4W · R003 3.3K · X001 4.5MHZ AZC1263 · D002 1SS176T · C006 30P CH · C007 22P CH

C009 150P T · R008 47K · R009 47K

R005 47K · C008 .1U T · R006 47K · R007 47K

D020 1SS176T · R013 470 · STAND BY LED D025 AZA7089 · STAND BY 3.8V POWER ON 4.7V · R016 330 1/4W

AZD7023 — AM OSC, VT, AM IF, FM IF, SD, STEREO, FM, ST/MO

AZK7058 — VU, VD, B.BOOST, UD

AZK7098 — CLK, DO, CE, MUT

TO MAIN PCB ASSY (2/2) Ⓥ (➡SCH-3)

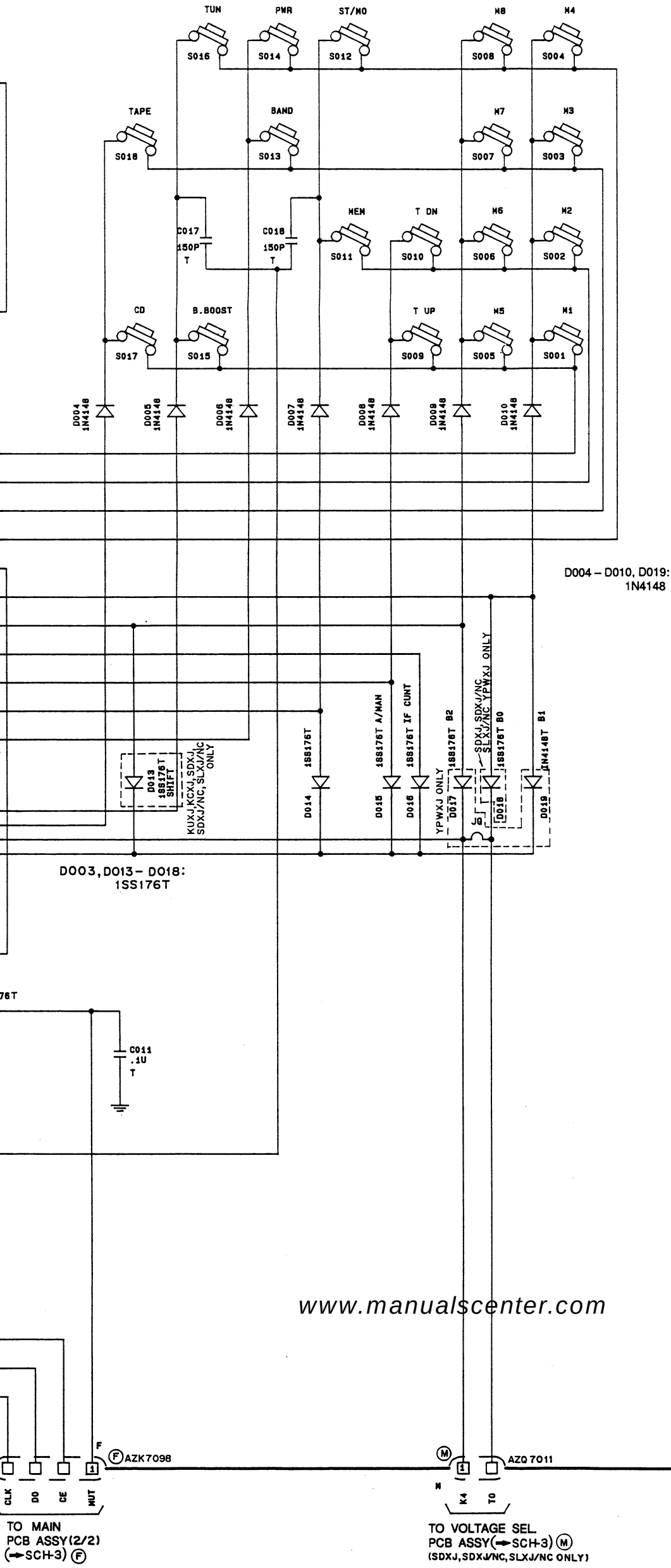
TO MAIN PCB ASSY (2/2) (➡SCH-3) Ⓘ

TO VR PCB ASSY (➡SCH-3) Ⓤ

TO MAIN PCB ASSY (2/2) (➡SCH-3) Ⓕ

TO VOLTA PCB ASSY (SDXJ,SDXJ

S001 – S018: AZS7014



D004 – D010, D019: 1N4148

D003, D013 – D018: 1SS176T

IC 001 VOLTAGE TABLE

PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]	PIN NO.	VOLTAGE [V]
1	2.6	21	0/4.9 (MUTE)	41	2.5	61	2.5
2	0.0	22	0 (TAPE)	42	2.5	62	2.5
3	5.6	23	4.9	43	2.5	63	2.5
4	5.6	24	4.9	44	2.5	64	2.5
5	5.6	25	4.9	45	2.5	65	2.5
6	6.5	26	4.9	46	2.5	66	5.6
7	0.7	27	4.9	47	2.5	67	4.5
8	0 (F) 5 (A)	28	4.9	48	2.5	68	4.9
9	0	29	4.9	49	2.5	69	5.6
10	5	30	4.9	50	2.5	70	2.4
11	0/4.6	31	4.9	51	2.5	71	2.4
12	0/4.6	32	0	52	2.5	72	4.9
13	4 (M) 0 (S)	33	0	53	2.5	73	4.9
14	0 (B) 4.7	34	0	54	2.5	74	0 (A) /2.6 (F)
15	0	35	0	55	2.5	75	0 (F) /2.6 (A)
16	0	36	2.5	56	2.5	76	0
17	0	37	2.5	57	2.5	77	0.6
18	0	38	2.5	58	2.5	78	1.0
19	0/4.9	39	2.5	59	2.5	79	0
20	4.9	40	2.5	60	2.5	80	0

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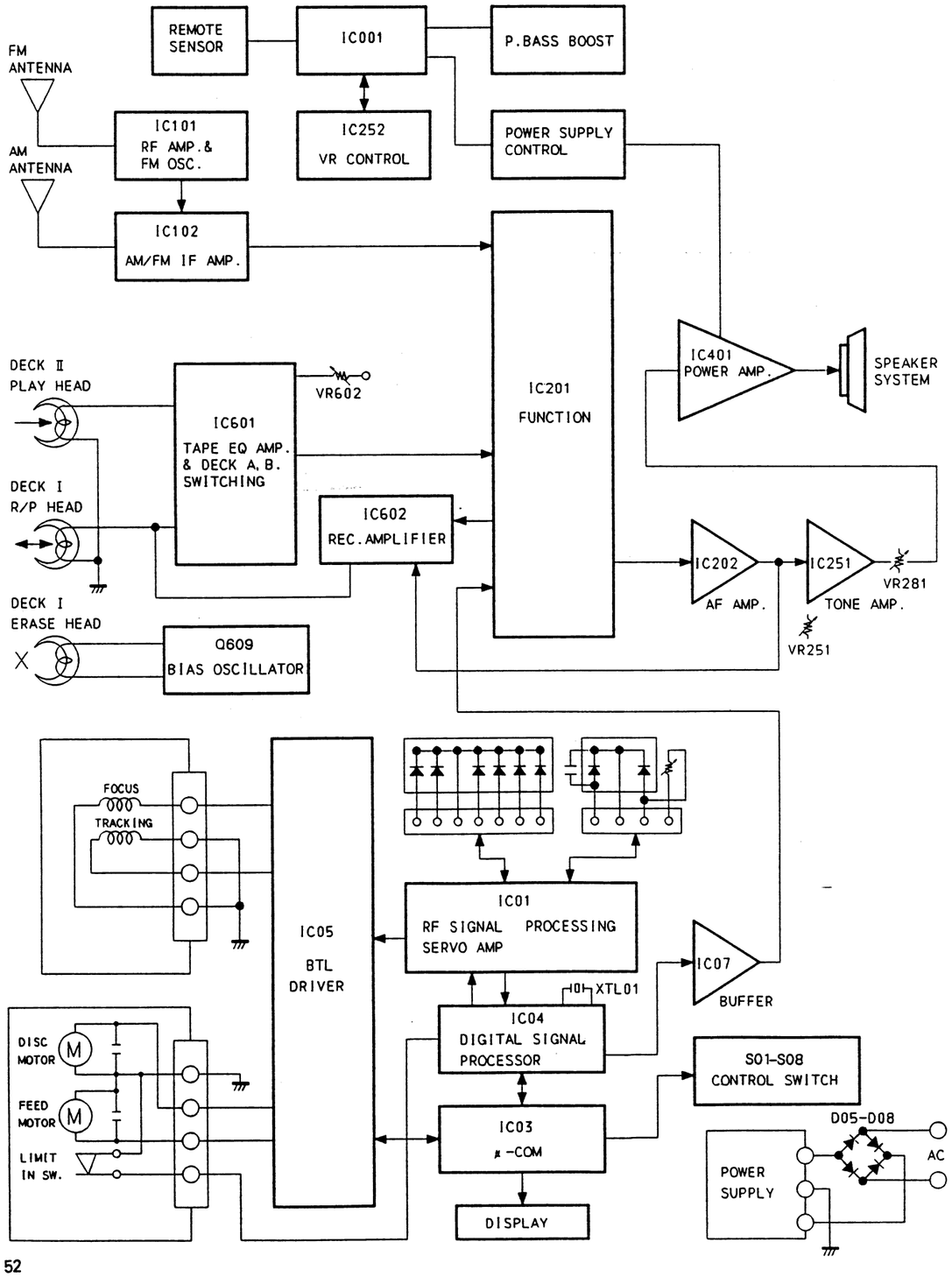
FRONT PCB ASSY

SCH-4

12. BLOCK DIAGRAMS



13. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

■ CONTRAST OF X-50C/KCXJ, SDXJ, SDXJ/NC, YPWXJ SLXJ/NC and KUXJ

X-P50C/KCXJ, SDXJ, SDXJ/NC, YPWXJ, SLXJ/NC and KUXJ have the same construction except for the follwing :

Mark	Symbol & Description	Part No.						Remarks
		KUXJ	KCXJ	SDXJ	SDXJ/NC	YPWXJ	SLXJ/NC	
	OPERATING INSTRUCTIONS (English)	AZR7022	AZR7022	Not used	Not used	AZR7022	Not used	
	OPERATING INSTRUCTIONS (English/Spanish/Chinese)	Not used	Not used	AZR7025	AZR7025	Not used	Not used	
	OPERATING INSTRUCTIONS (English/Chinese)	Not used	Not used	Not used	Not used	Not used	AZR7024	
	OPERATING INSTRUCTIONS (French)	Not used	AZR7023	Not used	Not used	Not used	Not used	
	MASTER CARTON	AZH7054	AZH7055	AZH7056	AZH7060	AZH7058	AZH7057	
NSP	GETTER LABEL (K-00)	AAX7130	AAX7130	AAX7128	AAX7128	AAX7129	AAX7128	
NSP	GETTER LABEL (K-00/R)	Not used	Not used	AAX7182	AAX7182	AAX7182	AAX7182	
NSP	STEREO CD CASSETTE DECK RECEIVER	XR-P1500C/ KUXJ	XR-P1500C/ KCXJ	XR-P1500C/ SDXJ	XR-P1500C/ SDXJ/NC	XR-P1500C/ YPWXJ	XR-P1500C/ SLXJ/NC	
NSP	SPEAKER SYSTEM	S-P1500/XJ/E	S-P1500/XJ/E	S-P1500/XJ/E	S-P1500/XJ/ NC	S-P1500/XJ/E	S-P1500/XJ/ NC	

NOTE : Refer to the service manual RRV1353 for SPEAKER SYSTEM S-P1500.

■ CONTRAST OF XR-P1500C/KCXJ, SDXJ, SDXJ/NC, YPWXJ, SLXJ/NC and KUXJ

XR-P1500C/KCXJ, SDXJ, SDXJ/NC, YPWXJ, SLXJ/NC and KUXJ have the same construction except for the follwing :

Mark	Symbol & Description	Part No.						Remarks
		KUXJ	KCXJ	SDXJ	SDXJ/NC	YPWXJ	SLXJ/NC	
	MAIN PCB ASSY KITS	AZW7159	AZW7159	AZW7160	AZW7160	AZW7161	AZW7160	
	├ MAIN PCB ASSY	AZW7163	AZW7163	AZW7164	AZW7164	AZW7165	AZW7164	
NSP	├ AC SUPPLY PCB ASSY	AZW7167	AZW7167	AZW7168	AZW7168	AZW7169	AZW7168	
NSP	└ VOLTAGE SEL. PCB ASSY	Not used	Not used	AZW7183	AZW7183	Not used	AZW7183	
	FRONT PCB ASSY	AZW7184	AZW7184	AZW7185	AZW7185	AZW7186	AZW7185	
⚠	FU501, FUSE UL/CSA (T1.6A/125V)	AZE7093	AZE7093	Not used	Not used	Not used	Not used	
⚠	FU502, FUSE UL/CSA (T3A/125V)	AZE7013	AZE7013	Not used	Not used	Not used	Not used	
⚠	FU501, FUSE BS (T3.15AL250V)	Not used	Not used	AZE7094	AZE7094	AZE7094	AZE7094	
⚠	FU502, FUSE BS (T1.25A/250V)	Not used	Not used	AZE7095	AZE7095	Not used	AZE7095	
⚠	FU502, FUSE BS (T800mA/250V)	Not used	Not used	Not used	Not used	AZE7012		
	REAR PANEL	AZN7292	AZN7292	AZN7303	AZN7307	AZE7305	AZN7304	
⚠	POWER TRANS. EI-66 (AC120V)	AZT7046	AZT7046	Not used	Not used	Not used	Not used	
⚠	POWER TRANS. EI-66 (AC 110V/120-127V /220-230V/240V)	Not used	Not used	AZT7051	AZT7051	Not used	AZT7051	
⚠	POWER. TRANS. SAA EI-66 (AC240V)	Not used	Not used	Not used	Not used	AZT7052	Not used	
⚠	AC CORD	AZE7092	AZE7092	AZE7092	AZE7092	AZD7064	AZD7012	
	VOLTAGE COVER	Not used	Not used	Not used	Not used	Not used	AZN7093	

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■ CONTRA

MAIN PCB

AZW7164, AZ

Mark	
	C1561, C116

AC SUPPL

AZW7168, AZ

Mark	
	R521

FRONT PC

AZW7185, AZ

Mark	
	D013 D017 D018 D019

13. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

■ CONTRAST OF X-50C/KCXJ, SDXJ, SDXJ/NC, YPWXJ SLXJ/NC and KUXJ

X-P50C/KCXJ, SDXJ, SDXJ/NC, YPWXJ, SLXJ/NC and KUXJ have the same construction except for the follwing :

Mark	Symbol & Description	Part No.						Remarks
		KUXJ	KCXJ	SDXJ	SDXJ/NC	YPWXJ	SLXJ/NC	
	OPERATING INSTRUCTIONS (English)	AZR7022	AZR7022	Not used	Not used	AZR7022	Not used	
	OPERATING INSTRUCTIONS (English/Spanish/Chinese)	Not used	Not used	AZR7025	AZR7025	Not used	Not used	
	OPERATING INSTRUCTIONS (English/Chinese)	Not used	Not used	Not used	Not used	Not used	AZR7024	
	OPERATING INSTRUCTIONS (French)	Not used	AZR7023	Not used	Not used	Not used	Not used	
	MASTER CARTON	AZH7054	AZH7055	AZH7056	AZH7060	AZH7058	AZH7057	
NSP	GETTER LABEL (K-00)	AAX7130	AAX7130	AAX7128	AAX7128	AAX7129	AAX7128	
NSP	GETTER LABEL (K-00/R)	Not used	Not used	AAX7182	AAX7182	AAX7182	AAX7182	
NSP	STEREO CD CASSETTE DECK RECEIVER	XR-P1500C/ KUXJ	XR-P1500C/ KCXJ	XR-P1500C/ SDXJ	XR-P1500C/ SDXJ/NC	XR-P1500C/ YPWXJ	XR-P1500C/ SLXJ/NC	
NSP	SPEAKER SYSTEM	S-P1500/XJ/E	S-P1500/XJ/E	S-P1500/XJ/E	S-P1500/XJ/ NC	S-P1500/XJ/E	S-P1500/XJ/ NC	

NOTE : Refer to the service manual RRV1353 for SPEAKER SYSTEM S-P1500.

■ CONTRAST OF XR-P1500C/KCXJ, SDXJ, SDXJ/NC, YPWXJ, SLXJ/NC and KUXJ

XR-P1500C/KCXJ, SDXJ, SDXJ/NC, YPWXJ, SLXJ/NC and KUXJ have the same construction except for the follwing :

Mark	Symbol & Description	Part No.						Remarks
		KUXJ	KCXJ	SDXJ	SDXJ/NC	YPWXJ	SLXJ/NC	
	MAIN PCB ASSY KITS	AZW7159	AZW7159	AZW7160	AZW7160	AZW7161	AZW7160	
	├ MAIN PCB ASSY	AZW7163	AZW7163	AZW7164	AZW7164	AZW7165	AZW7164	
NSP	├ AC SUPPLY PCB ASSY	AZW7167	AZW7167	AZW7168	AZW7168	AZW7169	AZW7168	
NSP	└ VOLTAGE SEL. PCB ASSY	Not used	Not used	AZW7183	AZW7183	Not used	AZW7183	
	FRONT PCB ASSY	AZW7184	AZW7184	AZW7185	AZW7185	AZW7186	AZW7185	
⚠	FU501, FUSE UL/CSA (T1.6A/125V)	AZE7093	AZE7093	Not used	Not used	Not used	Not used	
⚠	FU502, FUSE UL/CSA (T3A/125V)	AZE7013	AZE7013	Not used	Not used	Not used	Not used	
⚠	FU501, FUSE BS (T3.15AL250V)	Not used	Not used	AZE7094	AZE7094	AZE7094	AZE7094	
⚠	FU502, FUSE BS (T1.25A/250V)	Not used	Not used	AZE7095	AZE7095	Not used	AZE7095	
⚠	FU502, FUSE BS (T800mA/250V)	Not used	Not used	Not used	Not used	AZE7012		
	REAR PANEL	AZN7292	AZN7292	AZN7303	AZN7307	AZE7305	AZN7304	
⚠	POWER TRANS. EI-66 (AC120V)	AZT7046	AZT7046	Not used	Not used	Not used	Not used	
⚠	POWER TRANS. EI-66 (AC 110V/120-127V /220-230V/240V)	Not used	Not used	AZT7051	AZT7051	Not used	AZT7051	
⚠	POWER. TRANS. SAA EI-66 (AC240V)	Not used	Not used	Not used	Not used	AZT7052	Not used	
⚠	AC CORD	AZE7092	AZE7092	AZE7092	AZE7092	AZD7064	AZD7012	
	VOLTAGE COVER	Not used	Not used	Not used	Not used	Not used	AZN7093	

■ CONTRAST OF PCB ASSEMBLIES

MAIN PCB ASSY

AZW7164, AZW7165 and AZW7163 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AZW7163	AZW7164	AZW7165	
	C1561, 1562 C116	CKCYX183M16 CCPUCH120J50	CKCYX153M16 CCPUCH120J50	CKCYX153M16 CCPUCH220J50	

AC SUPPLY PCB ASSY

AZW7168, AZW7169 and AZW7167 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AZW7167	AZW7168	AZW7169	
	R521	AZC7023	Not used	Not used	

FRONT PCB ASSY

AZW7185, AZW7186 and AZW7184 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AZW7184	AZW7185	AZW7186	
	D013	1SS176T	1SS176T	Not used	
	D017	Not used	Not used	1SS176T	
	D018	Not used	1SS176T	1SS176T	
	D019	Not used	Not used	1SS176T	

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